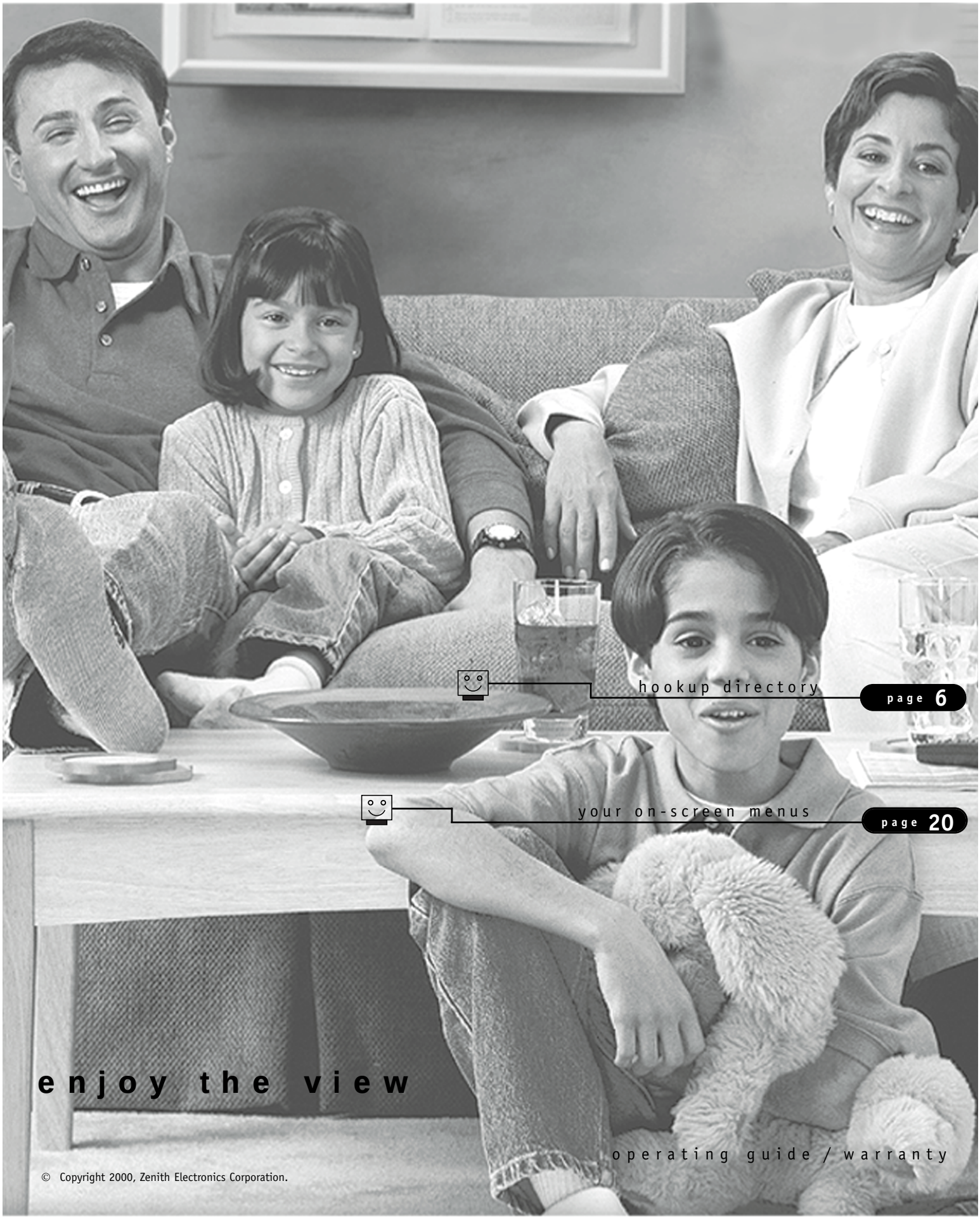
**machine number** | IQB50M90W | IQB55M90W | IQB60M90W | R60M90W

zenith



hookup directory page 6

your on-screen menus page 20

# enjoy the view

operating guide / warranty

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**RECORD YOUR MODEL NUMBER**

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO._____

SERIAL NO._____

**WARNING:**

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:**

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**POWER CORD POLARIZATION:**

CAUTION: To Prevent Electric Shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

**NOTE TO CABLE/TV INSTALLER:**

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

**REGULATORY INFORMATION:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:**

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Entertainment Machine is a registered trademark of Zenith Electronics Corporation.

# IMPORTANT SAFETY INSTRUCTIONS

**Important safeguards for you and your new product**

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

## 1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

## 2. Follow Instructions

All operating and use instructions should be followed.

## 3. Retain Instructions

The safety and operating instructions should be retained for future reference.

## 4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

## 5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

## 6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

## 7.Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

## 8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

## 9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

## 10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

## 11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

## 12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

## 13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

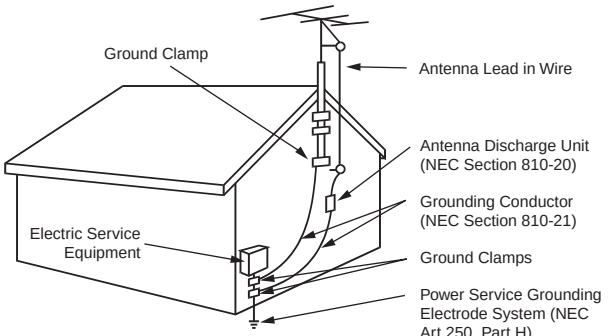
# IMPORTANT SAFETY INSTRUCTIONS

(Continued from previous page)

## 14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**Example of Grounding According to National Electrical Code Instructions**


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

## 15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

## 16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

## 17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

## 18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

## 19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

## 20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

## 21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

## 22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## 23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

## 24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

## Table of Contents

*Turn to the next page to begin the TV setup.*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Note: Design and specifications are subject to change without prior notice.

## Hookup Directory

IMPORTANT!! Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

### GENERAL HOOKUP INFORMATION


**About your Jacks** For general information about the jacks on your Entertainment Machine, go to . . . . . page 7


### INPUT HOOKUP OPTIONS


**Antenna/Cable** If you are using an antenna or have direct cable service, go to . . . . . page 8

**Cable Box** If you are using a cable box, go to . . . . . page 9

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### AUDIO EQUIPMENT OPTIONS

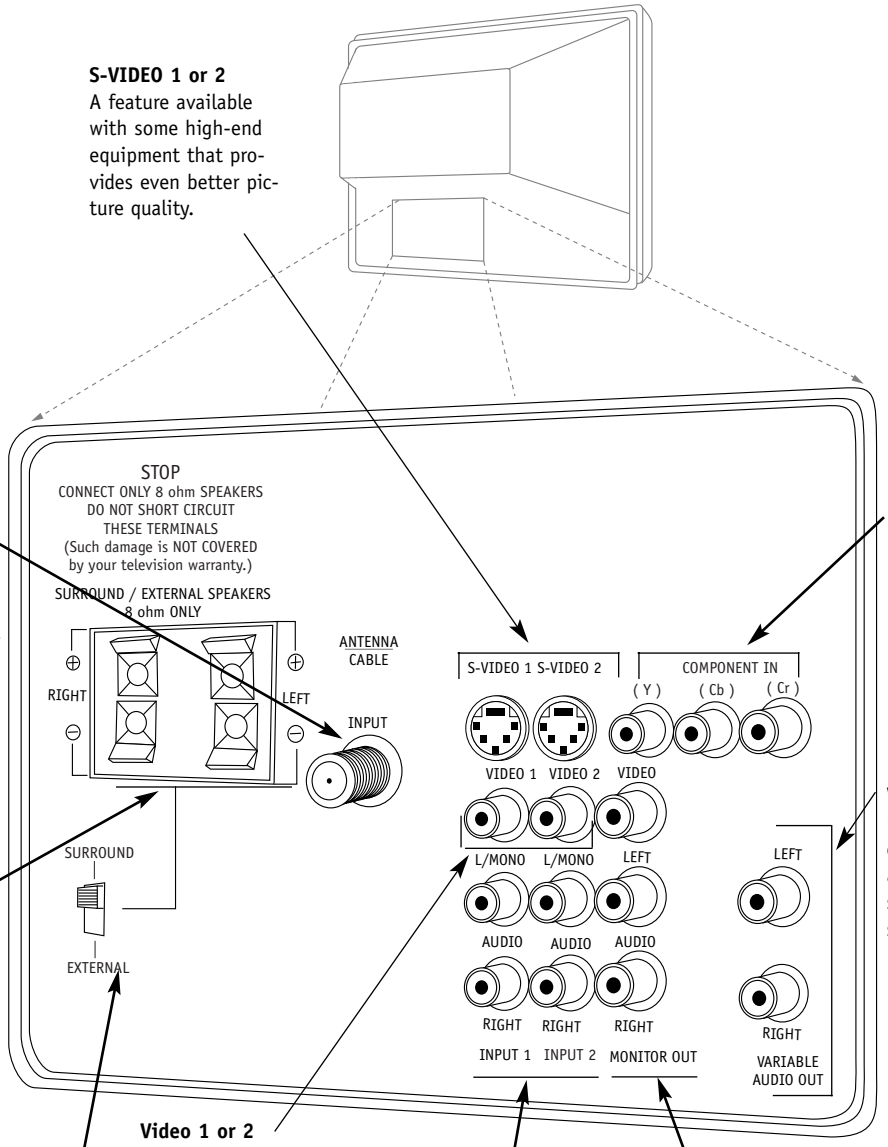

**Audio Speakers** To hook up your surround sound speakers, mini tower speaker or sub-woofer, go to . . . . . page 12

**External Stereo** To hook up your Entertainment Machine to an external stereo, go to . . . . . page 13

**Speaker Placement** For general speaker placement advice, go to . . . . . page 14

## Audio Video Jacks

Connecting cables to your Entertainment Machine.




**S-VIDEO 1 or 2**
A feature available with some high-end equipment that provides even better picture quality.

**RF Connectors: Antenna/Cable**
Used to connect cable to the television, either directly or through your cable box.

**Y, Cb, Cr Component Video**
Some top-of-the-line DVD players use what is called "component video," for extremely accurate picture reproduction. *Refer to your DVD manual for further information.*

**Variable Out**
Used to connect either an external amplifier, or add a sub-woofer to your surround sound system.

**Surround/External Speaker Jacks Right/Left**
Used to improve your sound by connecting surround-sound speakers.

**Surround/External Speaker Matrix Switch**
Use this switch to choose between the surround and external speaker features.

**Video 1 or 2**
Connects the video signals from various types of equipment.

**Right/Left Audio**
Used for stereo sound from various types of equipment.

**Monitor Out**
These jacks provide fixed audio and video signals which are used for recording.

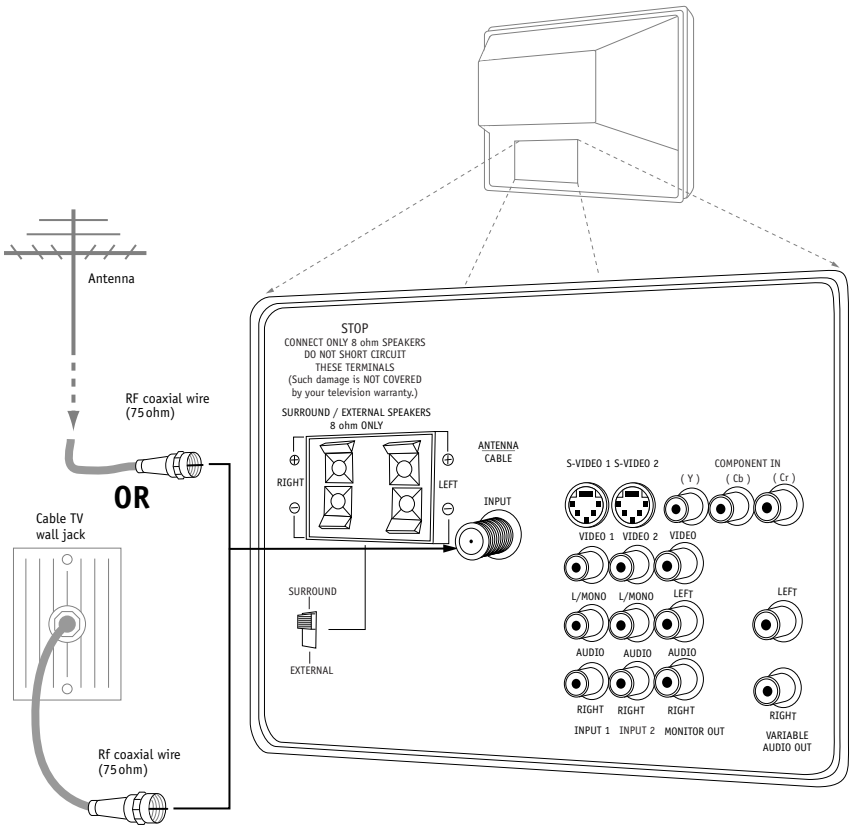
### Mini glossary

| | |
|---|---|
| JACK | A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-coded. |
| SIGNAL | Picture and sound traveling through cable, or on the air, to your television screen. |

## Hook Up Direct Cable TV or Antenna

**1** Locate the Antenna/Cable jack on the back of your Entertainment Machine.

**2** Connect the cable that runs from the wall directly to this jack.

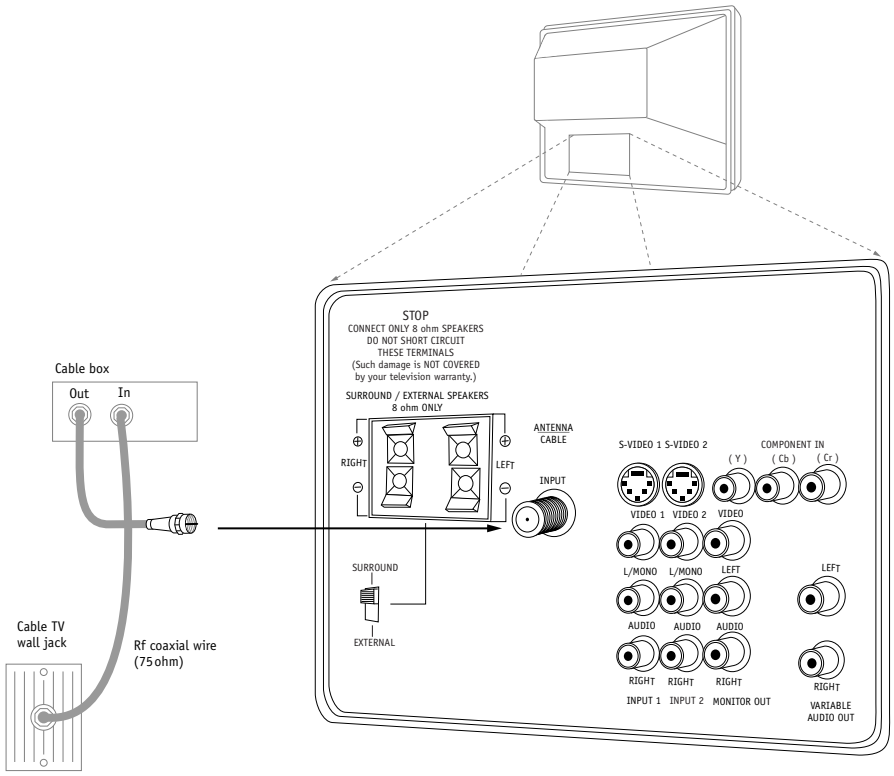



*If you receive cable through an antenna that is several years old and connects with two small prongs, you will need to purchase a 300 to 75Ohm adapter. It should be available from your local electronics dealer.*

## Cable Box

**1** Locate the Antenna/Cable jack on the back of your Entertainment Machine.

**2** Connect the cable that runs from the wall to the IN jack on your Cable Box. Connect the cable from the OUT jack on your Cable box to the Antenna/Cable jack on your Entertainment Machine, according to the diagram to the right.

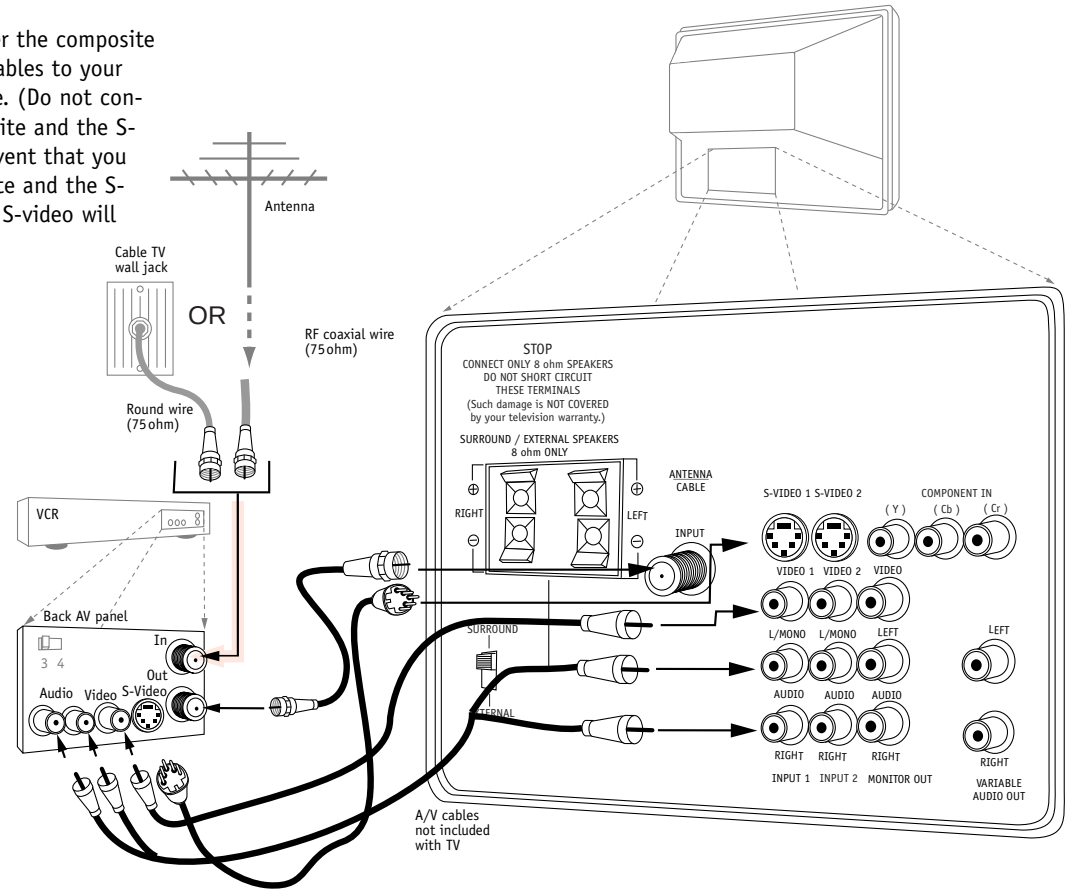


## VCR

**1** Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

**2** Find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.

You may connect either the composite video or the S-video cables to your Entertainment Machine. (Do not connect BOTH the composite and the S-Video cables. In the event that you connect both composite and the S-Video cables, only the S-video will work.)



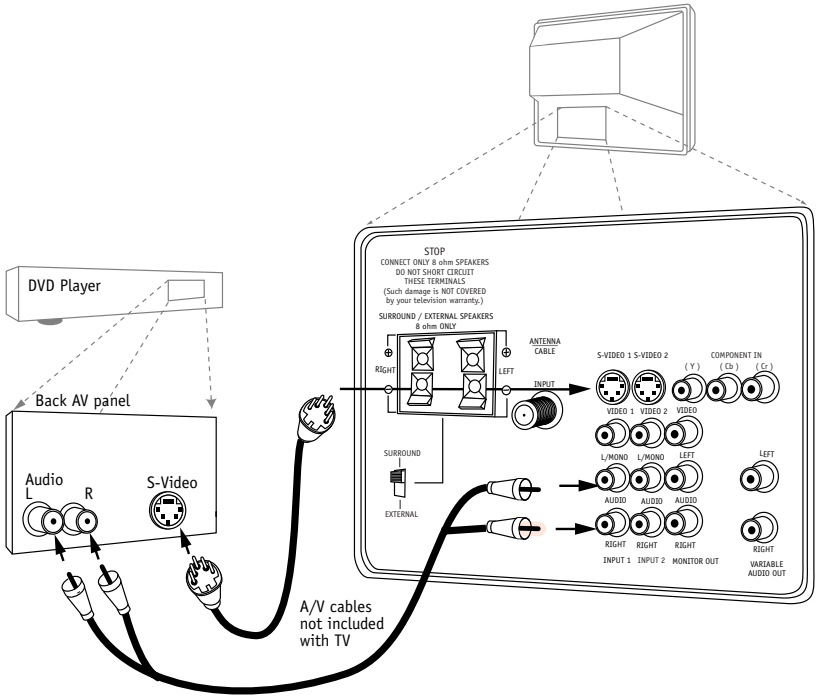

*To hear stereo sound from cable or your VCR, you will need to connect A/V cables as well as the wire that runs from the VCR to your Entertainment Machine.*

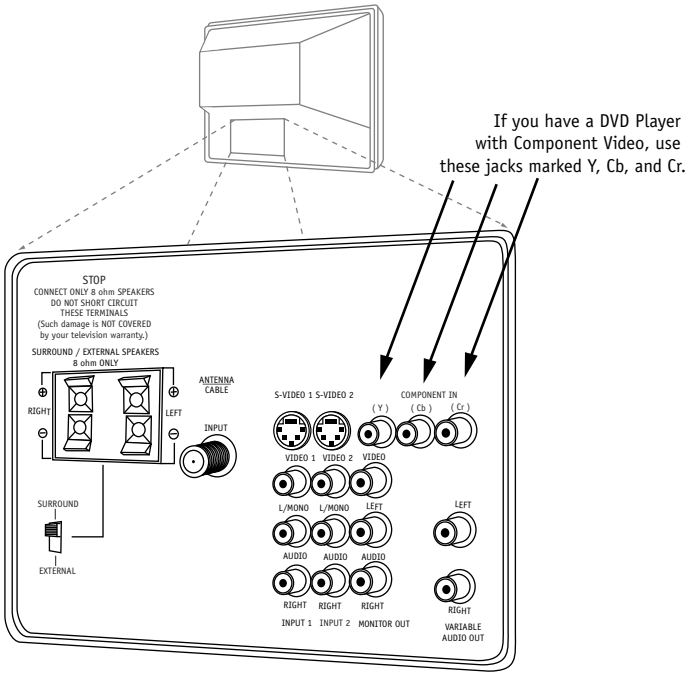
*If you want to receive your signals on Channel 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna/Cable jack on the back of your Entertainment Machine.*

## DVD Player

**1** Find the audio and composite or S-Video jacks on the back of your DVD Player and connect them following the instructions provided with your equipment.

**2** You may connect either the composite video or the S-Video cables to your Entertainment Machine. (Do not connect both the composite and the S-Video. In the event that you connect both composite and the S-Video cable, only the S-Video will work.)




*Some high-end DVD players use a picture reproduction system called "component video." If your DVD player has component output, use the connectors marked "DVD" on the jack panel. Please refer to your DVD manual for proper installation.*

*For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 28.*

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## Audio Hookups

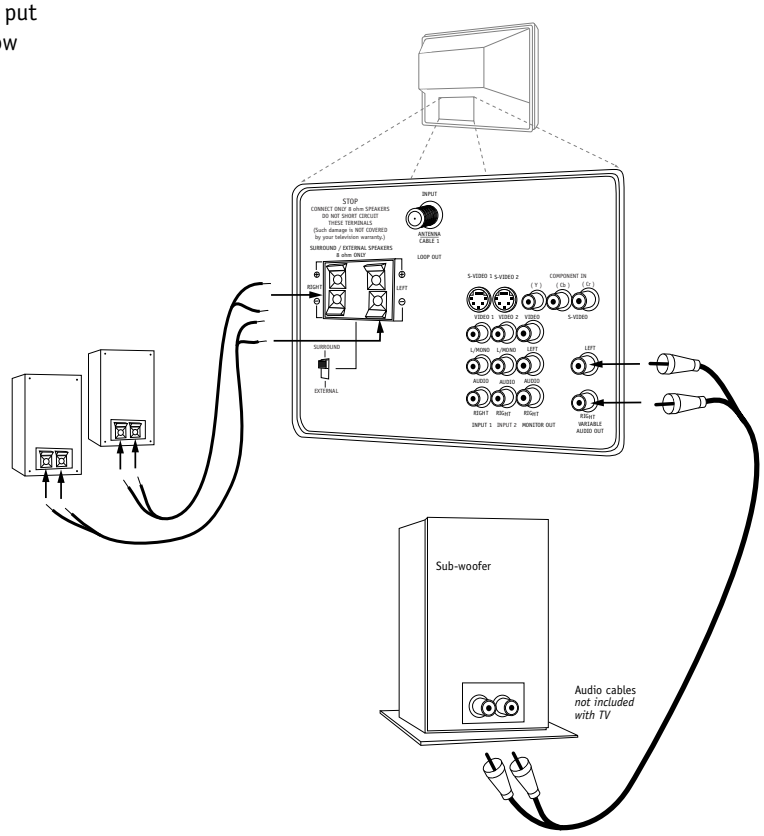
Before you begin connecting your speakers, it's a good idea to put them in their approximate places first. That way you know how much wire you have or will need.

*Hook up Left/Right Front Speaker to Amplifier System.*

**1** Locate the Surround/External Speaker clips on the back of your Entertainment Machine. Connect the wires to the right or left speaker clips, depending on where the speaker is located in your room. The copper wire corresponds to the Negative jack, and the silver to the Positive.

**2** Locate the jacks marked Variable Out. These are for the sub-woofer. Connect the sub-woofer's cables, according to their color (red is the right channel, white the left) to these jacks.

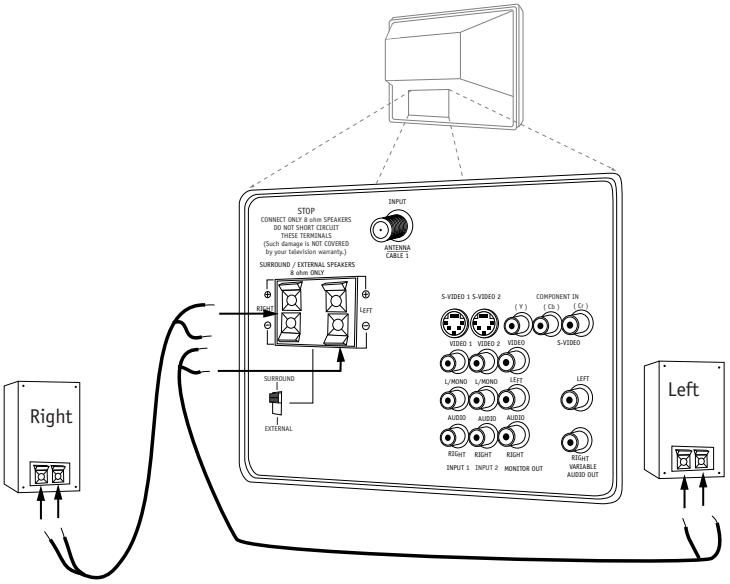
**3** Set the Surround/External Speaker Matrix switch into the "External" position.




*Hook up Left/Right Front Speaker to Amplifier System.*

**1** To use your Surround/External Speaker clips as the only audio output, connect the wires for your speakers to the Surround Speaker clips according to the diagram on the right.

**2** Set the Surround/External Speaker Matrix switch into the "External" position.




*If you happen to have Mini-tower speakers, these will be connected to the back of your sub-woofer, with the jack labeled Satellite Speaker Output.*

## External Stereo

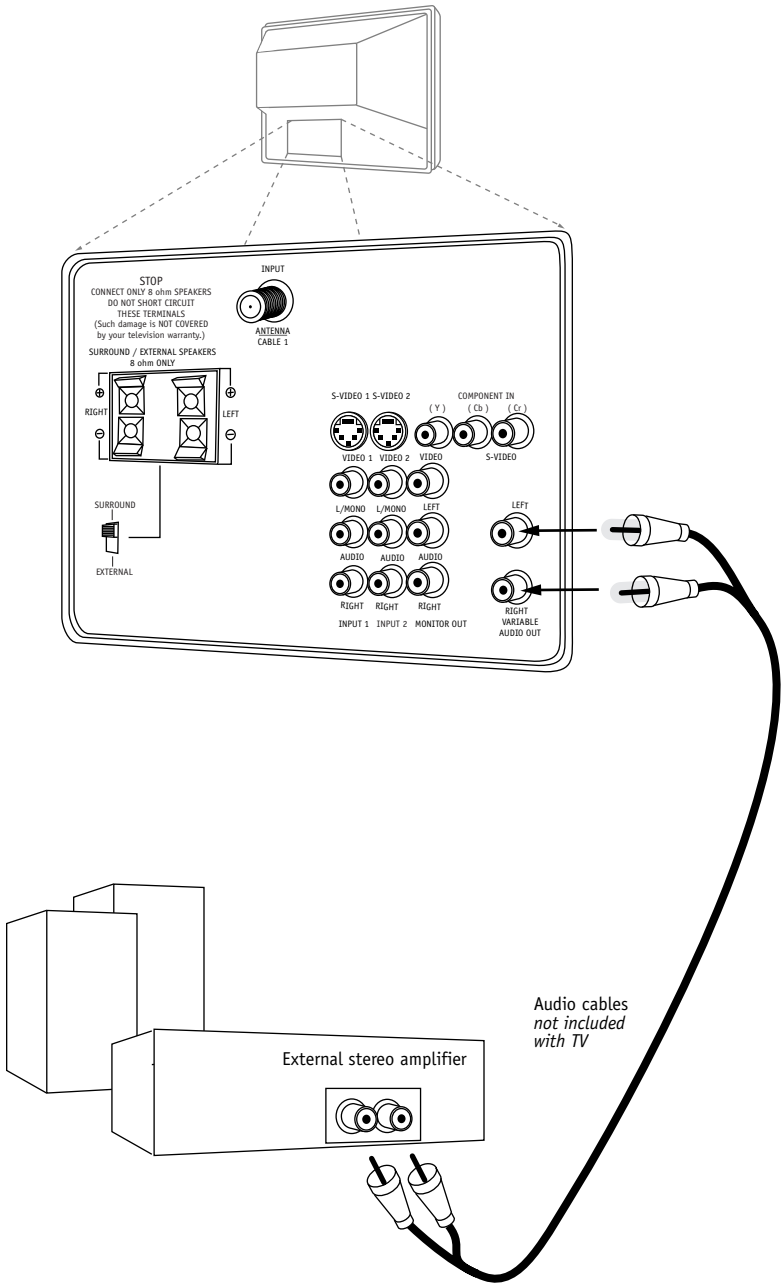
*Hook up Left/Right Front Speaker to Amplifier System.*

**1** Locate the Variable Out jacks on the back of your Entertainment Machine and the Input jacks on the back of your stereo's amplifier.

**2** Connect the two jacks, making sure that the right and left channels are placed correctly.

**3** Set up your speakers through your stereo, according to those directions.

**4** Turn off the internal speakers through the Audio Menu. See page 36.

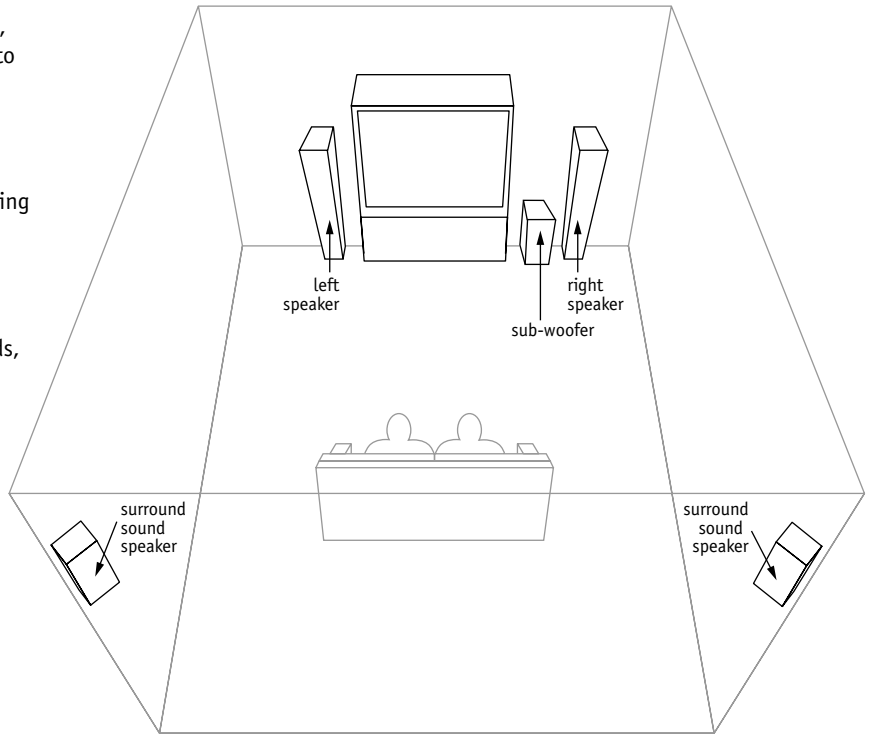


## Room Set-ups for Home Theater

General help on designing your home theater set-up.

This is just a general room design. Any number of set-ups are possible, and some changes may be needed to maximize your sound.

A left and right speaker on either side of the Entertainment Machine will create a "center channel," making the dialog sound as though it's coming directly from the Entertainment Machine.
The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies. Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio.



*Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions.*

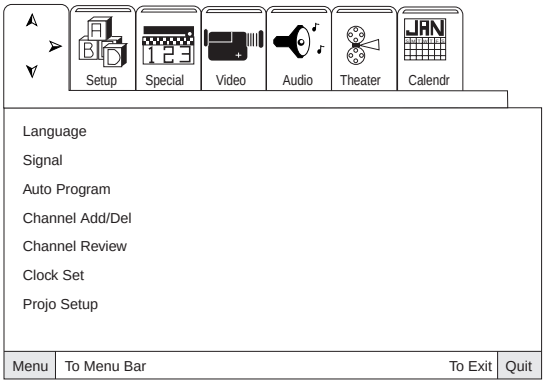
*If your surround sound system is on, but there's no sound from the speakers, the program you're watching might not be broadcast in surround sound.*

**Mini glossary**

AMPLIFIER An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

## Menu Navigation

This page explains the first four steps you should perform to access any menu described in this manual.

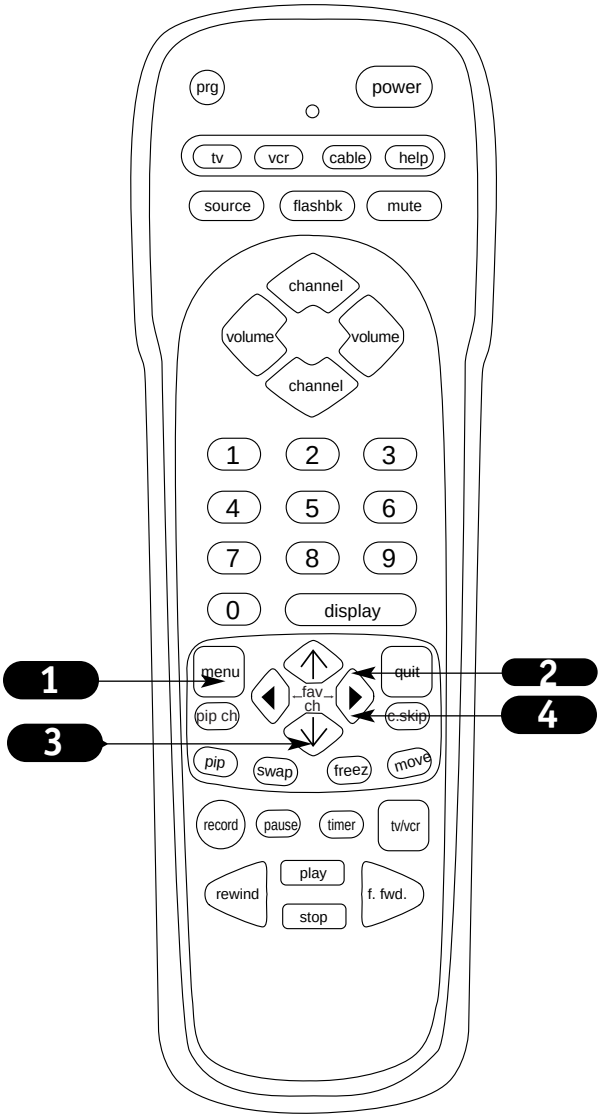



**1** Press the Menu to access the on-screen Menu.

**2** Press a LEFT/RIGHT arrow button to select the Menu you want.

**3** Press an UP/DOWN arrow to select a Menu Item to adjust.

**4** Press a RIGHT/LEFT arrow button to activate the Menu Item you wish to adjust.

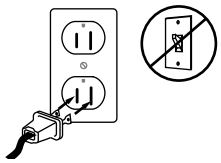



Press QUIT to exit the menu screen at any time.

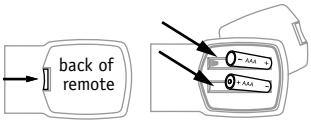
Press MENU to return to MENU cycle through the Setup, Special, Video, Audio, Theater and Calendar menus.

Press QUIT to set your menu selections and return to TV viewing.

**1** Use pages 7-13 to hook up your Entertainment Machine. Plug in your Entertainment Machine into a 120V 60Hz outlet.



**2** Remove the back of the remote and put in two AAA batteries. Make sure batteries are properly installed (check the +/– signs).




**3** Turn on your Entertainment Machine by pressing the POWER button on your remote.

**4** Access the Signal item on your Setup Menu by following the four steps on page 15.

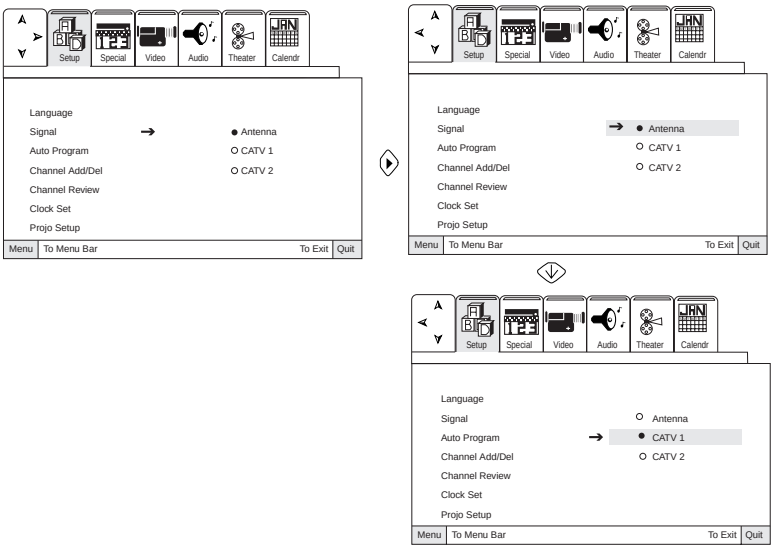
**5** Select the signal source of your Entertainment Machine. If your signal comes from an outdoor antenna, select ANTENNA by pressing the RIGHT arrow button. If your signal comes from a cable TV service, select CATV 1 by pressing the DOWN arrow button, then the RIGHT arrow button. When you have made your selection, press the MENU button to return to the Setup Menu.

**6** Now access the Auto Program Menu Item by pressing the DOWN arrow button on your remote.

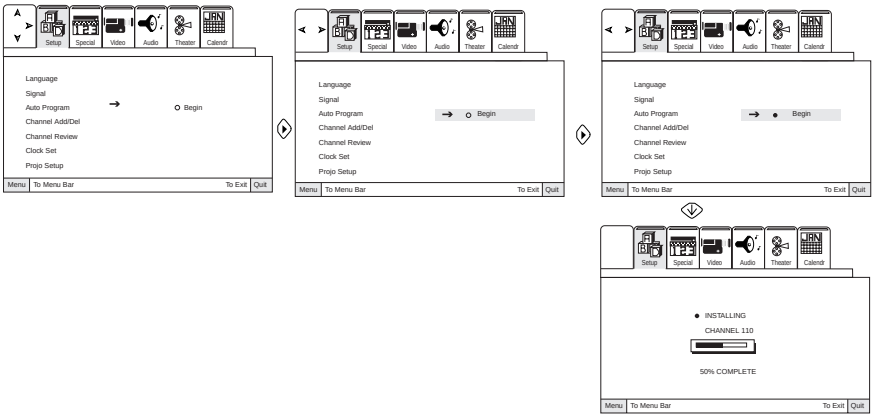
**7** Press the RIGHT arrow button to select Auto Program and then press the RIGHT arrow button again to begin Auto Programming.

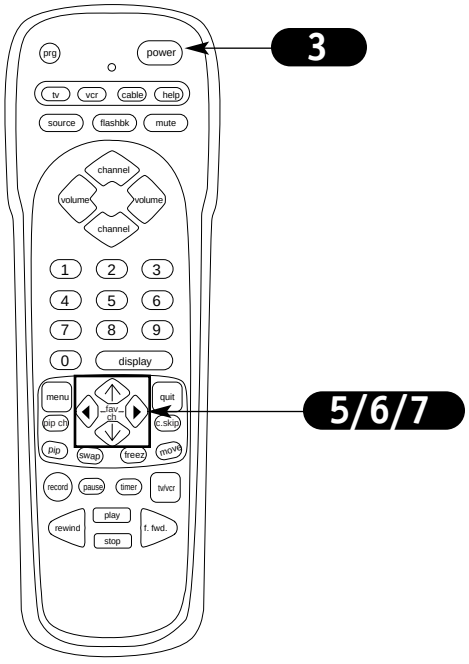
*If certain CATV channel are poor or not possible in CATV1 mode, set signal to CATV2 mode.*

**Signal source selection:**




**Auto Program:**

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## Button Functions on Your Remote

All the buttons on your remote, and what they do.

**PRG**
Press to begin Programming your remote.

**MODE**
Adjust which mode your remote is working in, TV, Cable Box, or VCR.

**SOURCE**
Cycles through the available sources on your Entertainment Machine.

**FLSHBK**
Return immediately to the last channel viewed.

**VOLUME LEFT/RIGHT**
Increases/decreases the sound level

**ARROW KEYS**
Allows you to move through on-screen menu choices. When Menus inactive, arrow buttons activate Favorite Channels feature. (Must set Favorite Channels first).

**MENU**
Displays on-screen menus.

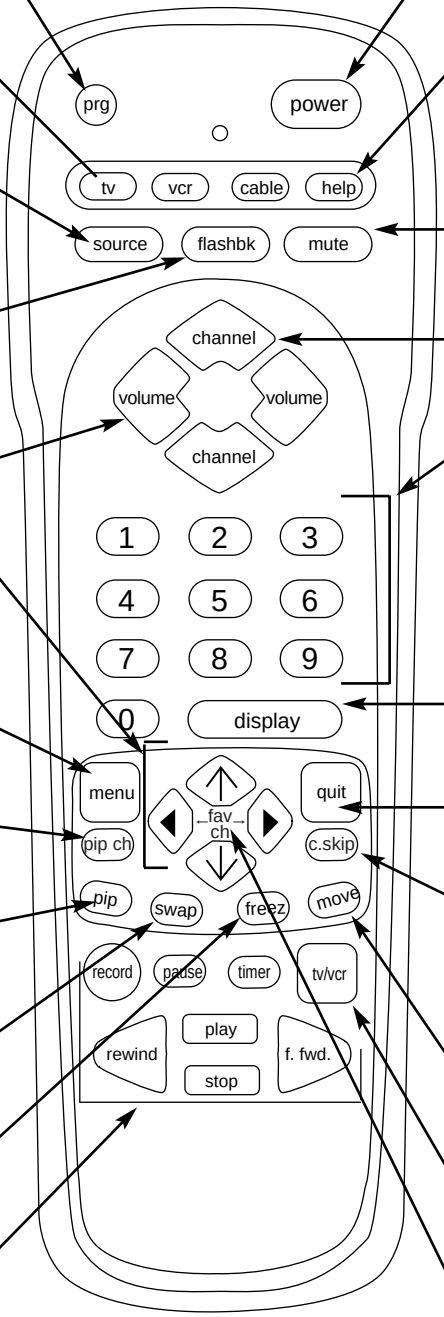
**PIP CH.**
Select between Main Picture and PIP display tuning control.

**PIP**
Activates the PIP feature, large, small and single, surf.

**SWAP**
Swaps between your Main Picture and the PIP Display.

**FREEZ**
Freezes and strobe PIP display.

**RECORD, PAUSE, TIMER REWIND, PLAY, STOP F. FWD**
These buttons are used to control your VCR (even if your remote is in TV mode!).




Remote Control Part Number
**MBR 3474Z**
**924-10043**

**POWER**
Turn your Entertainment Machine and all other programmed equipment on or off.

**HELP**
Activates the on-screen Help feature.

**MUTE**
Press once for Soft Mute, and again for full Mute.

**CHANNEL UP/DOWN**
Scroll through your available channels.

**NUMBER KEYPAD**
For direct channel selection and programming functions. To add a 3 digit channel number press the 1st number wait until 2 dashes show up to the right of that number then add the other two numbers. In Digital Setup number buttons select points in digital array.

**DISPLAY**
Shows current on-screen settings.

**QUIT**
Leaves programming menus and clears screen of displays.

**C. SKIP**
Channel Skip. Tunes Entertainment Machine to last channel viewed. Tunes back to original channel after 30, 60, 90, 120, 150, or 180 seconds.

**MOVE**
Moves PIP display over four corners of screen.

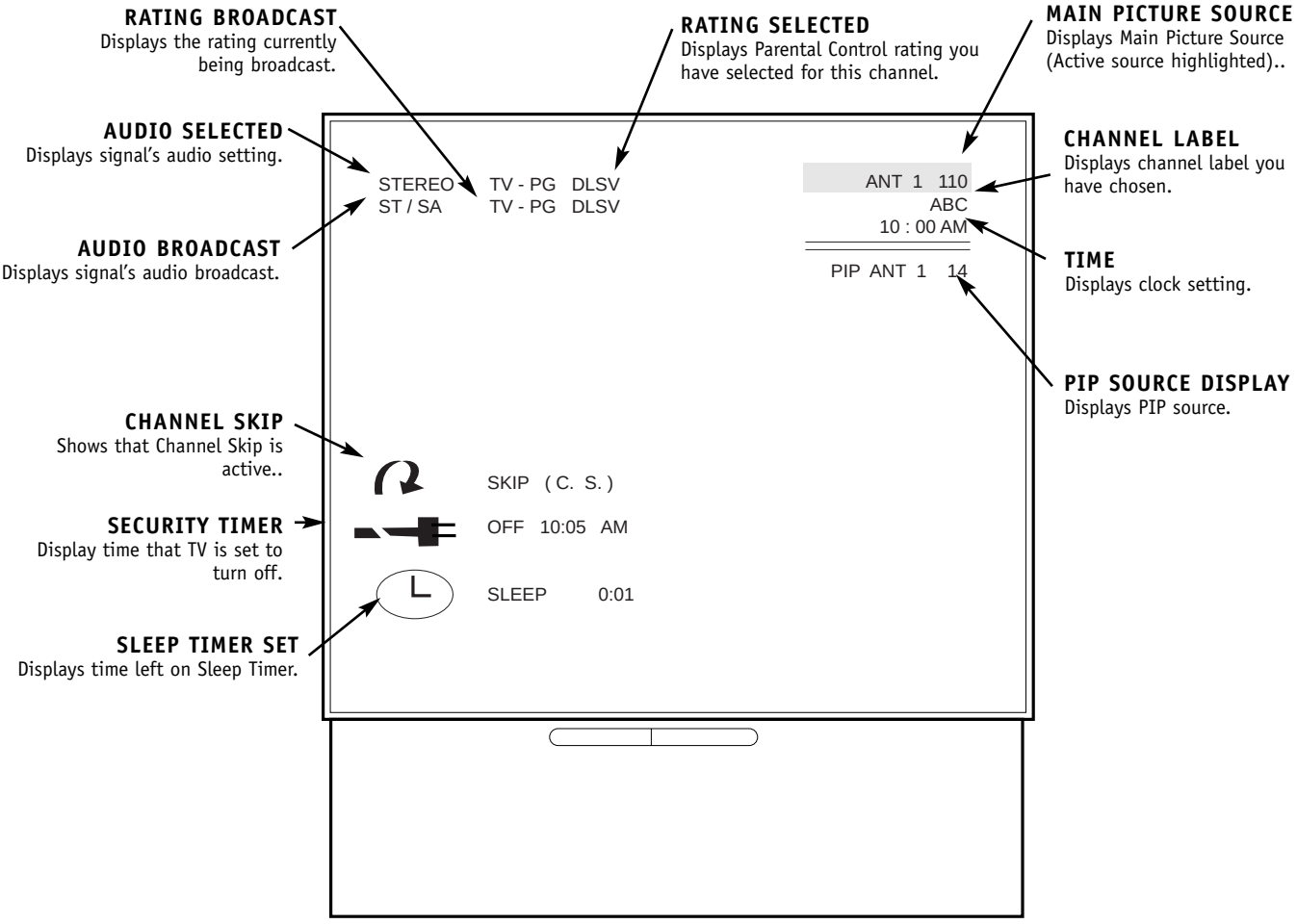
**TV/VCR**
Selects TV or VCR as your signal source.

**FAVORITE CHANNEL (RIGHT/LEFT ARROWS)**
Select among 6 different channel groupings.

206-3486-0

## On-Screen Display

This page describes your on-screen display options.




*Security Timer Display will only show within one minute before TV turns OFF.*

206-3486-0

## Front Panel

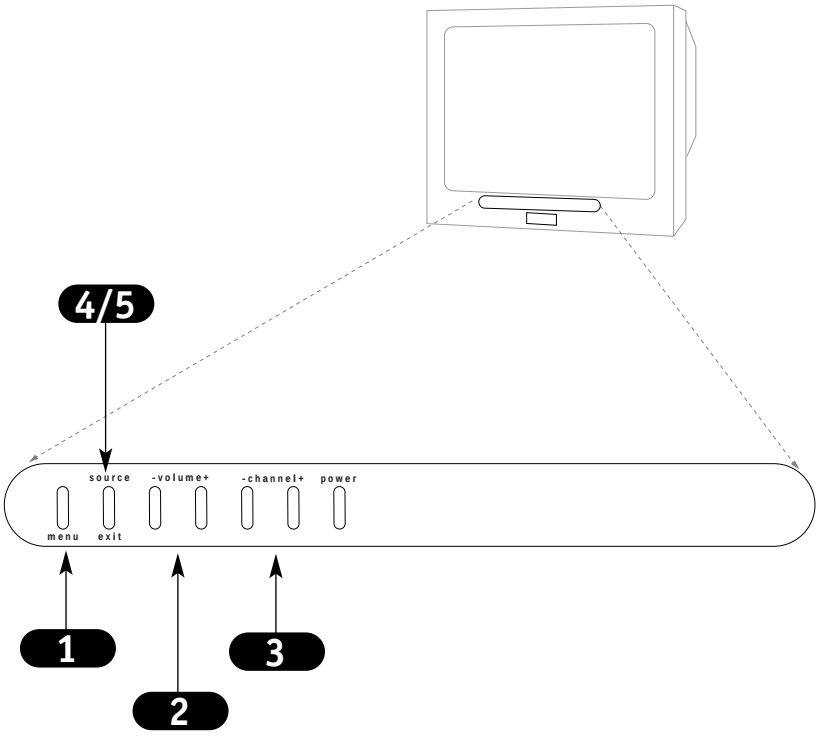
**1** To access the menus, push the MENU button on the panel.

**2** Use the VOLUME +/- buttons as the LEFT/RIGHT arrow buttons on your remote.

**3** Use the CHANNEL +/- buttons as the UP/DOWN arrow buttons on your remote.

**4** Push the EXIT button to return to normal TV viewing.

**5** Press the SOURCE button to cycle through all sources.




*Refer to the various pages on how to use the on-screen menus.*

*The CHANNEL and VOLUME buttons work just as they do on your remote control.*

*Auto Demo is activated by pressing the POWER button on the front panel and holding down on the button. To turn Auto Demo off, press the POWER button once.*

## On-Screen Menus

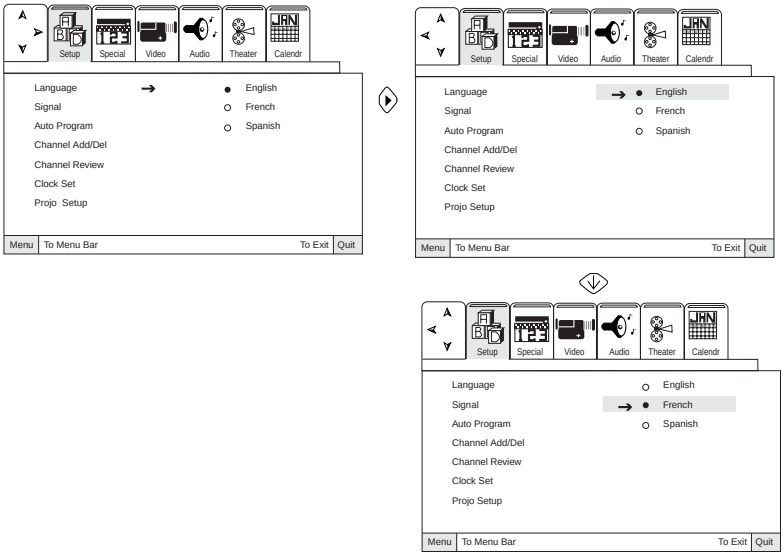
Using the Menu button on your remote you can access all the menus below.


| Menu Name | | Go to page |
|---|---|---|
| **SETUP MENU** | Adjust the basic characteristics of your Entertainment Machine. | |
| **Language** | Pick the language you want your on-screen menus to appear in. | 22 |
| **Signal** | Adjust the signal Source for your Ant jack. | 15 |
| **Auto Program** | Automatically finds and stores active channels to flip through using Channel Up/Down. | 15 |
| **Channel Add/Del** | Manually pick and choose which active channels will appear when flipping through using Channel Up/Down. | 23 |
| **Channel Review** | Review the labels and Parental Controls you have placed on your channels. | 24 |
| **Clock Set** | Set the Clock on your Entertainment Machine. | 25 |
| **Projo Setup** | Allows you to adjust the color convergence of your Entertainment Machine. | 26 |
| **SPECIAL MENU** | Go beyond basics and customize your Entertainment Machine's functions. | |
| **Channel Labels** | Label your channels with their network names (ABC, CBS, HBO, etc.). | 27 |
| **Source ID** | Customize the names of your sources by either selecting a label or making your own. | 28 |
| **Favorite Channels** | Choose your Favorite Channels according to their category Movies, Sports, Sitcoms, News, Music or Custom. | 29 |
| **Parental Control** | Allows parents to block any channel for up to 99 hours, with the use of a password. | 30 |
| **Security Timer** | Program up to four separate events for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time. | 31 |
| **Captions/Text** | Choose the captioning or text method for your Entertainment Machine. | 32 |
| **Background** | Turns the background for on-screen menus transparent or opaque. | 33 |

| **Menu Name** (cont'd) | | **Go to page** |
|---|---|---|
| **VIDEO MENU** | Adjust your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Reset and Advanced Settings: Light Sentry, Auto Flesh, Video Filter, Detail Enhance and Color Temperature. | 34 |
| **AUDIO MENU** | Customize the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Reset and Advanced Settings: Stereo, Mono, Second Audio Program, Internal Speakers Auto Noise Cancel, Loudness and SoundRite. | 35 |
| **THEATER MENU** | Select the right audio and video automatic settings that optimize TV's performance for TV, Movies, or Sporting Events | 36 |
| **CALENDAR** | View the calender on your Entertainment Machine. | 37 |
| **PIP OVERVIEW** | Set the Picture-In-Picture settings for your Entertainment Machine. | 38 |

## Language Menu

Choose what language your on-screen menus appear in.



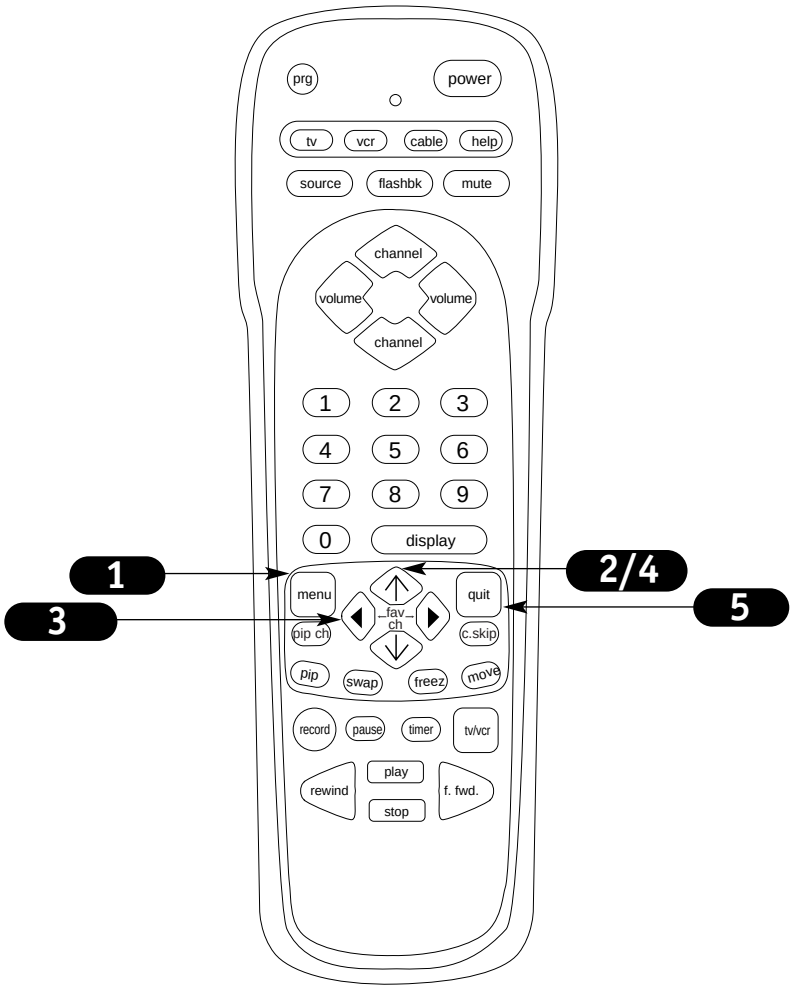

**1** Press the Menu to access the on-screen Menu.

**2** Press an UP/DOWN arrow to select Language.

**3** Press a RIGHT/LEFT arrow button to activate Language menu item.

**4** Press an UP/DOWN arrow button to select your Menu language preference.

**5** Press QUIT to exit and save your choice.

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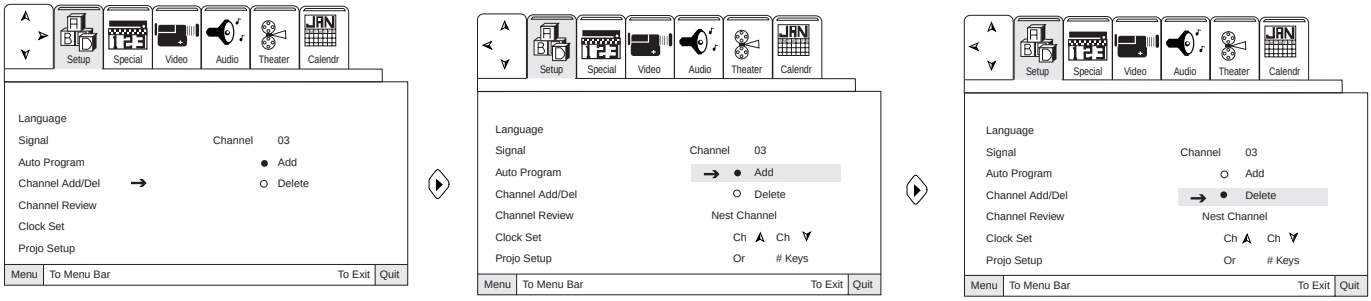
# Channel Add/Delete



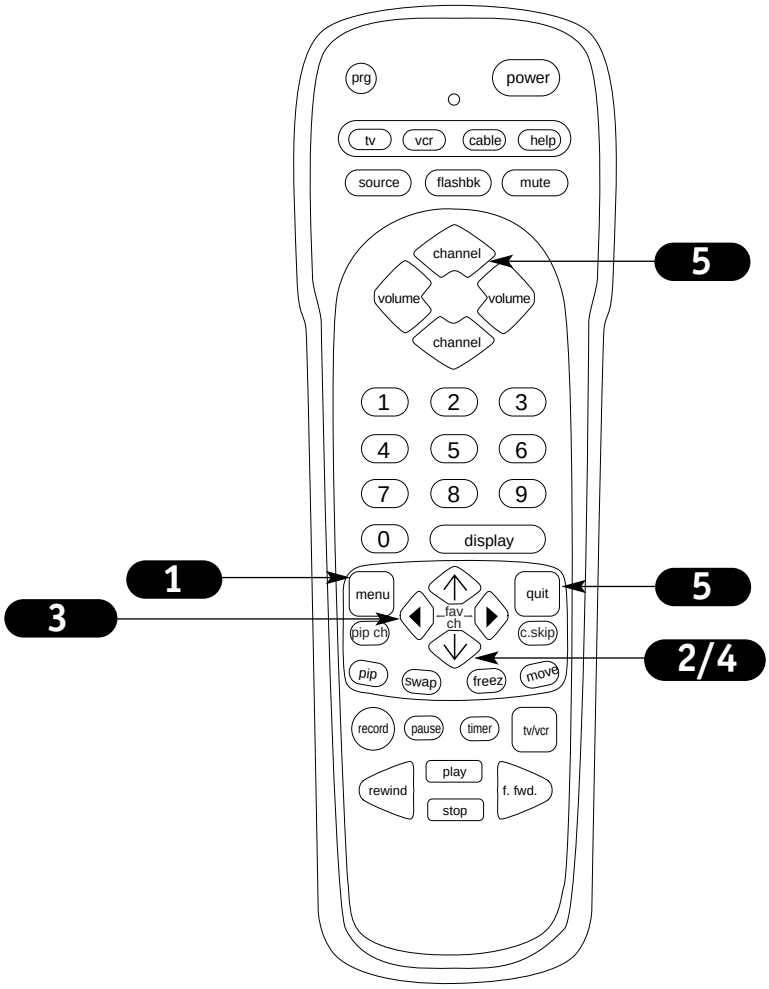

**1** Press the Menu to access the on-screen Menu.

**2** Press an UP/DOWN arrow to select Channel Add/Del.

**3** Press a RIGHT/LEFT arrow button to activate Channel Add/Del menu item.

**4** Press an UP/DOWN arrow button to Add or Delete the current channel.

**5** Press QUIT to exit and save your choice or use the Channel UP/DOWN buttons to select another channel to Add or Delete and repeat steps four and five.

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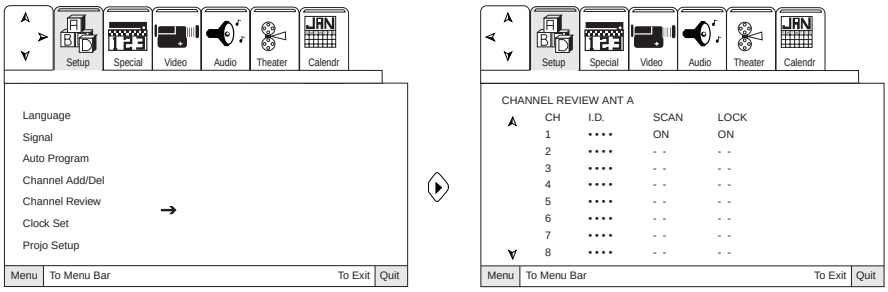
## Channel Review

Review the channel settings on your Entertainment Machine.



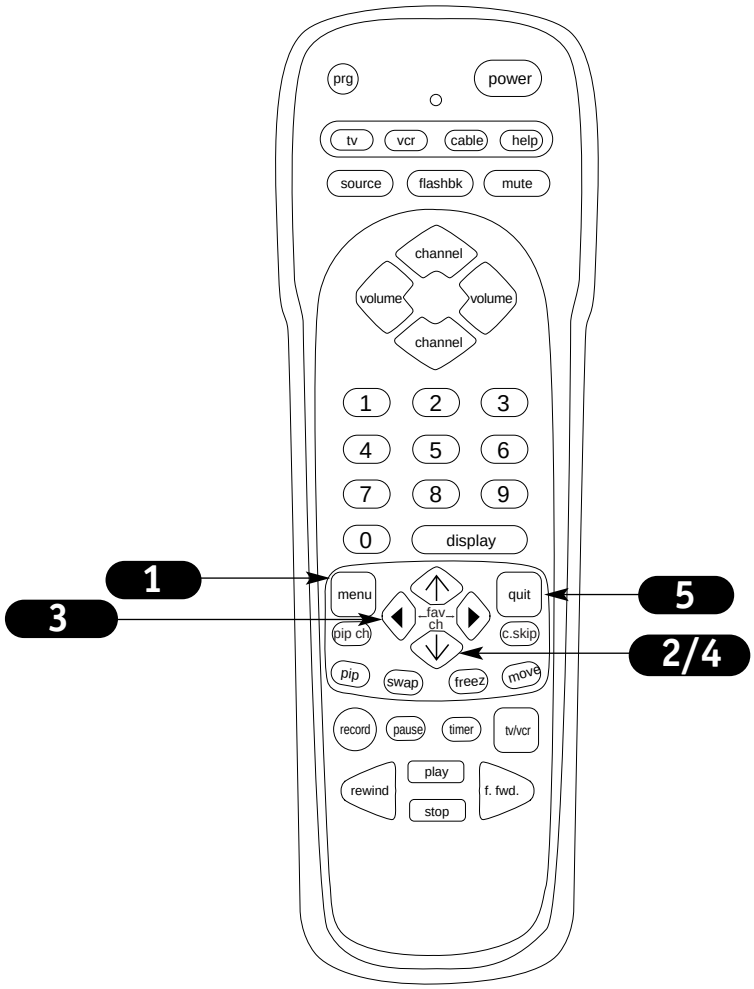

**1** Press the Menu to access the on-screen Menu.

**2** Press an UP/DOWN arrow to select Channel Review.

**3** Press a RIGHT/LEFT arrow button to activate Channel Review menu item.

**4** Press an UP/DOWN arrow button to cycle through your channel list.

**5** Press QUIT to exit.

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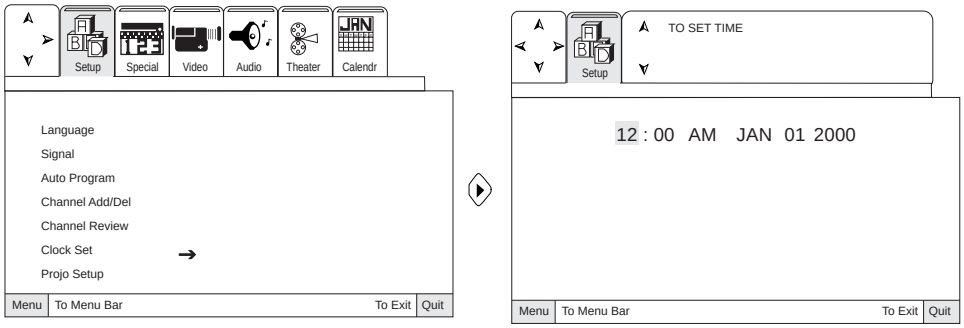
## Clock Set

Set the clock on your Entertainment Machine.



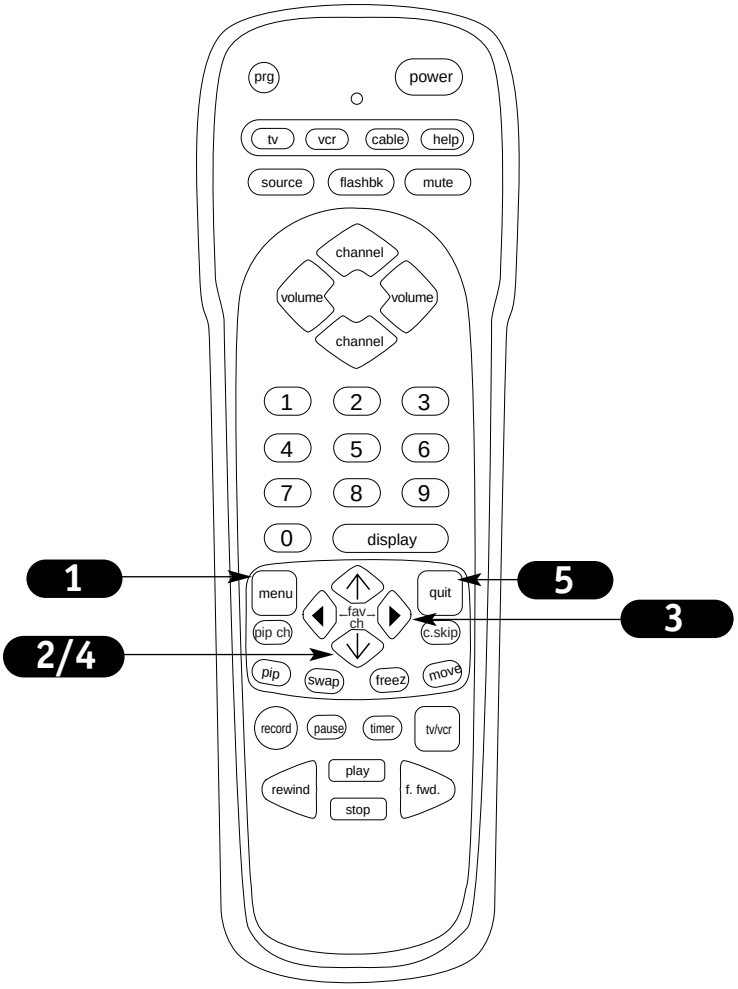

**1** Press the Menu to access the on-screen Menu.

**2** Press an UP/DOWN arrow to select Clock Set.

**3** Press a RIGHT arrow button to set the clock on your Entertainment Machine.

**4** Use the RIGHT/LEFT arrow button to select time and date options. Use the UP/DOWN arrow buttons to adjust time and and date options.

**5** Press QUIT to save and exit.



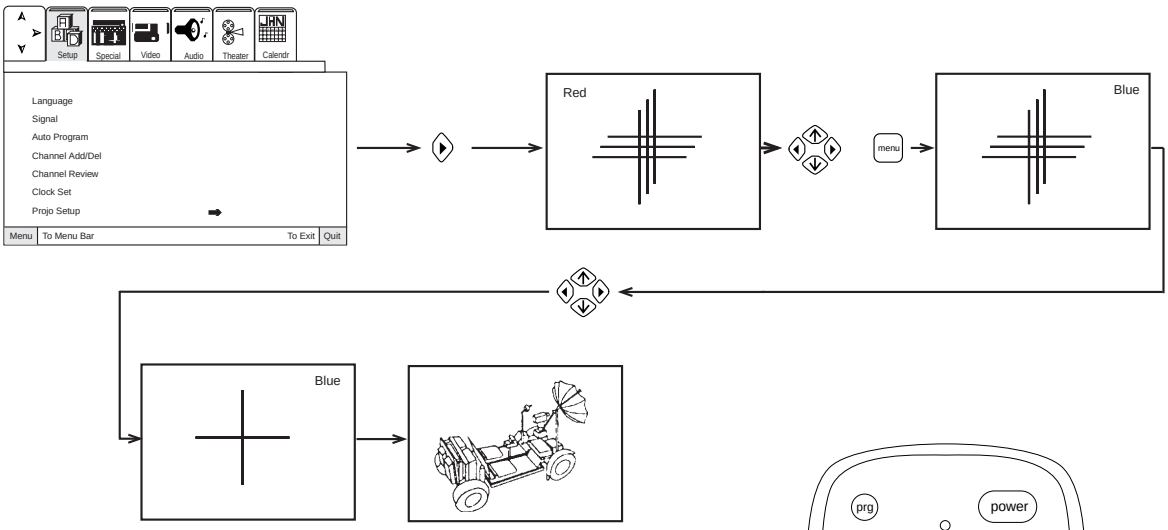

206-3486-0

## Projo Setup

Your Zenith Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called "convergence".

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

To simplify convergence, the following feature allows you to display a test pattern of horizontal and vertical lines on the screen. Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.




**1** Press the Menu to access the on-screen Menu.

**2** Press an UP/DOWN arrow to select Projo Setup.

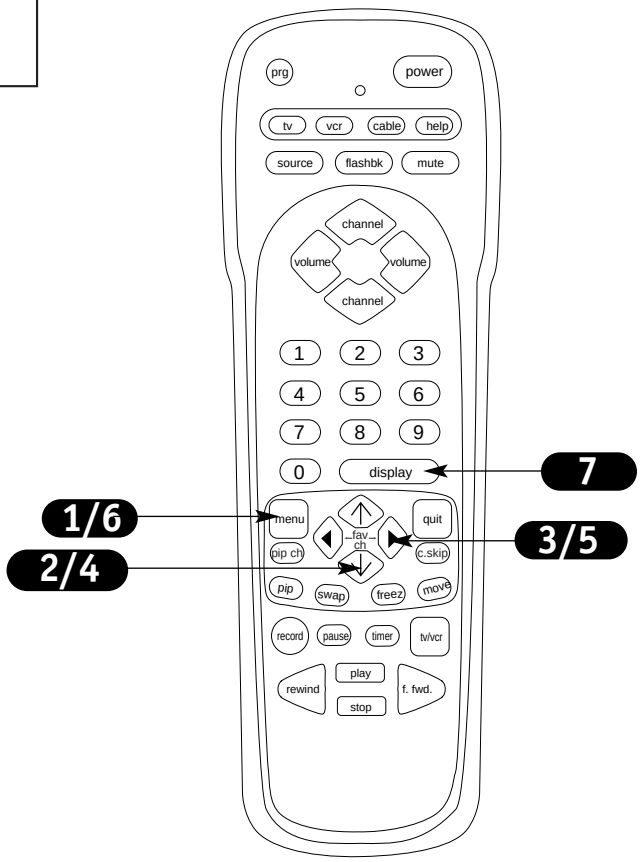
**3** Press a RIGHT arrow button to activate Projo Setup

**4** Press the UP/DOWN arrow buttons to move the color displayed up or down.

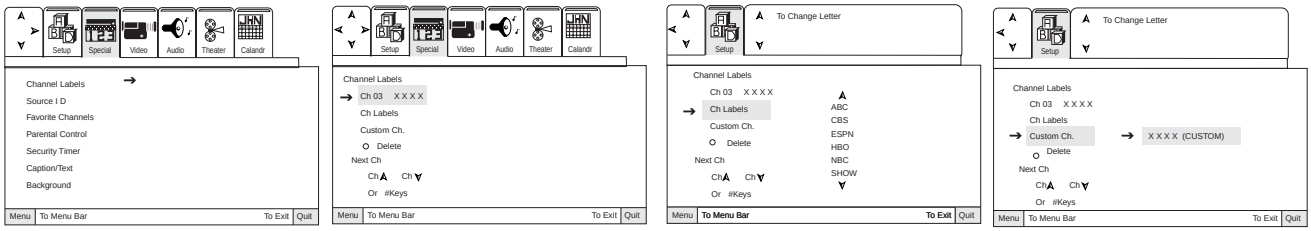
**5** Press a LEFT/RIGHT arrow button to move the color displayed left or right.

**6** Press the MENU button to change the color.

**7** Press QUIT to exit the feature.



# Channel Labels




**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

**2** Press an UP/DOWN arrow to select Channel Labels.

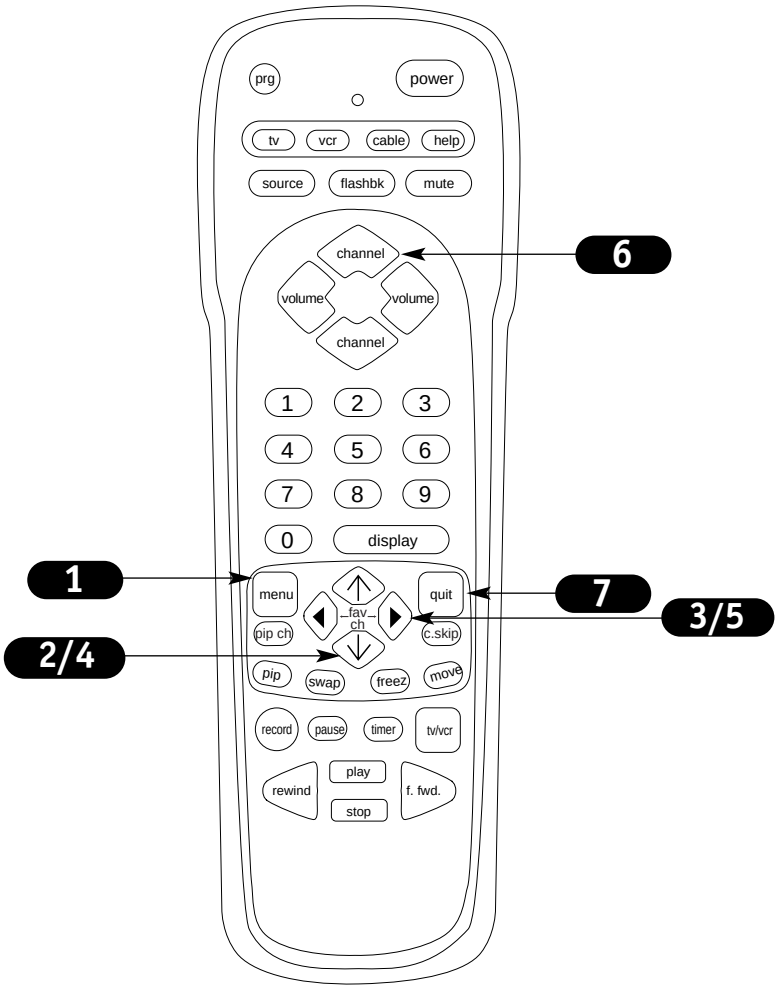
**3** Press a RIGHT arrow button twice to activate the Channel Labels option.

**4** Use the UP/DOWN arrow buttons to select a pre-set channel label (use the right arrow to access and UP/DOWN to scroll through the list) You may customize your channel label by selecting Custom Channel, or delete a channel label entirely by selecting Delete.

**5** If you select custom channel, press the RIGHT arrow button twice and then use the UP/DOWN arrow buttons to select individual letters.

**6** Use CHANNEL UP/DOWN buttons or the NUMBER KEYPAD and select another channel to label.

**7** Press QUIT to save and exit.

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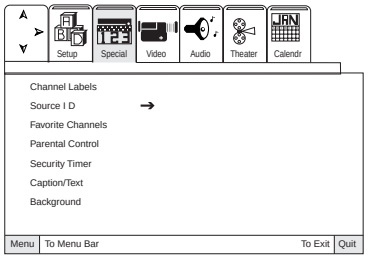
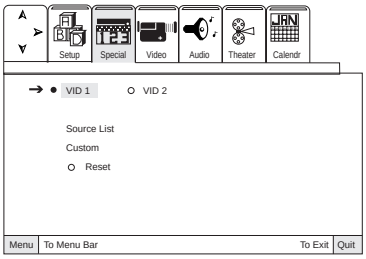
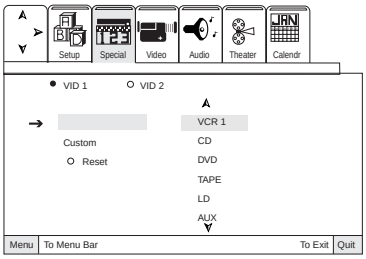
## Source ID




**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

**2** Press an UP/DOWN arrow to select Source ID.

**3** Press a RIGHT arrow button twice to activate the Source ID option.

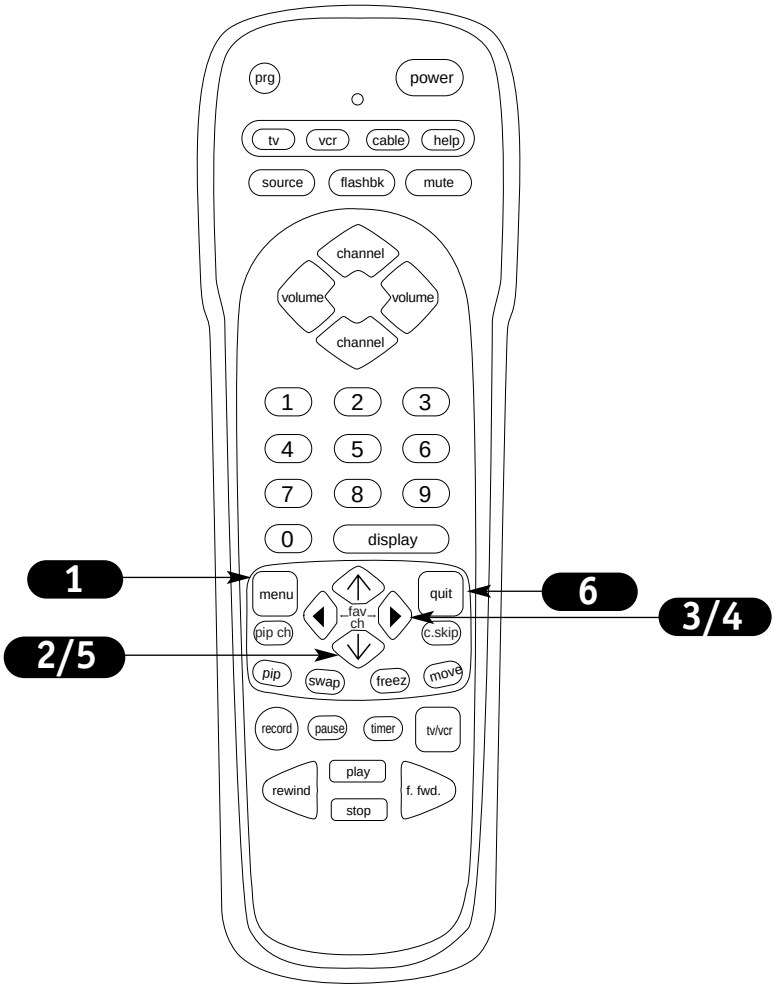
**4** Use the RIGHT/LEFT arrow buttons to select a VID1 or VID2.

**5** Use the UP/DOWN arrow buttons to select Source List to choose a pre-set Source ID, Custom to create your own label, or Reset to clear all labels.

**6** If you select Source List, press the RIGHT arrow button access the list and then the UP/DOWN arrow buttons to select from the list. Press QUIT to save your choice.

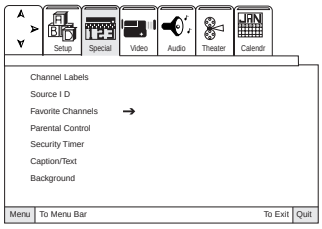
**7** If you wish to customize your source ID, select Custom, then press the RIGHT arrow button. Cycle through the character choices using the UP/DOWN buttons and cycle through the character slots using the RIGHT arrow button. Press QUIT to save your choice and exit.

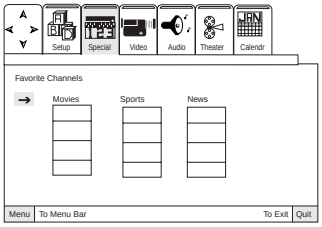
**8** To reset your Source ID to their default labels (VID1 and VID2) select Reset and press a RIGHT arrow button. Press QUIT to save your choice and exit.

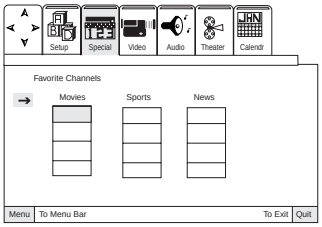


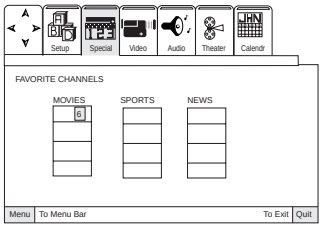

When you label VID1 and VID2 the TV set will automatically change to source of the last source labeled. To return to your original drawing source, press the source button on the remote repeatedly until you see the picture you were originally watching.

# Favorite Channels




**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

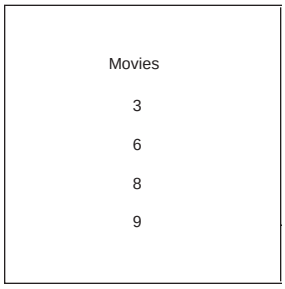
**2** Press an UP/DOWN arrow to select Favorite Channels. Press the RIGHT arrow button to activate Favorite Channels option.

**3** Use the RIGHT arrow button to select your Favorite Channels category such as Movies, Sports, News, Sitcom , Music or Custom.

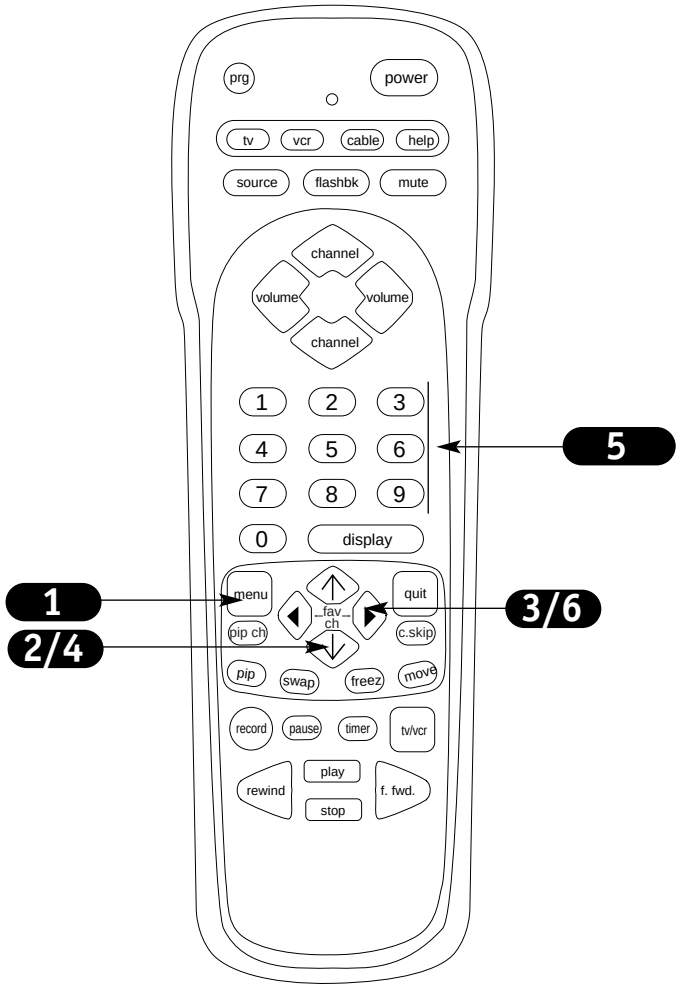
**4** Once you have selected a category, press a DOWN arrow button to select a slot for your Favorite Channel of that category.

**5** Use the NUMBER keypad to enter the channel you want for that category. Repeat these steps for all categories.

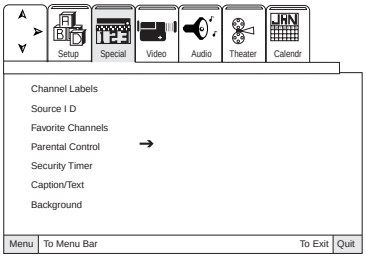
**6** To access your favorite channels, simply use the LEFT/RIGHT arrow buttons while watching TV. Use the UP/DOWN arrow buttons to scroll through the choices you have set.

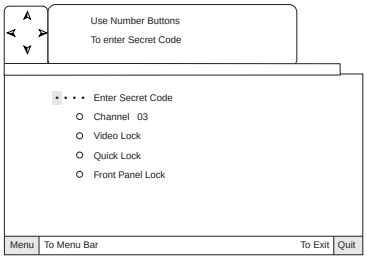


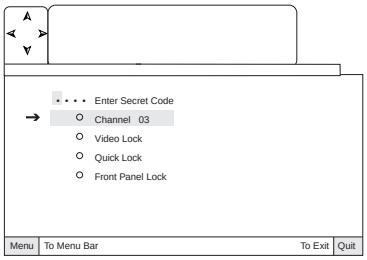

If movie ratings/TV ratings is set, PIP deactivates surf mode.



# Parental Control



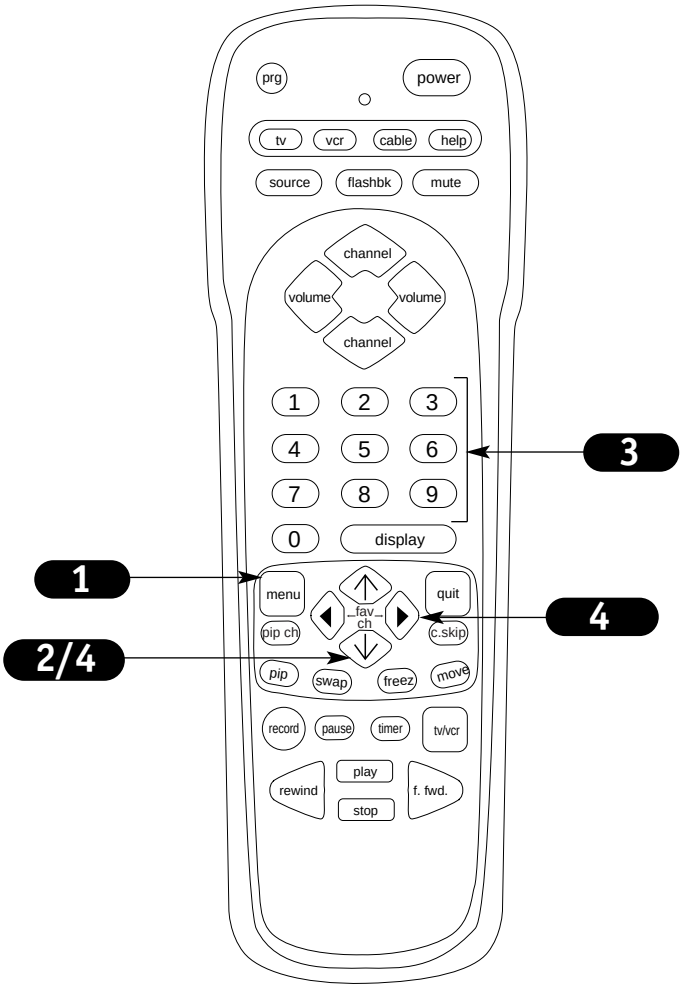

**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

**2** Press an UP/DOWN arrow to select Parental Control and press the RIGHT arrow button to activate Parental Control.

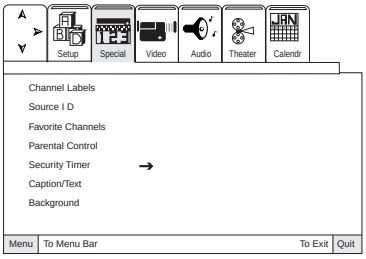
**3** When prompted, enter the default code 7777 from the number keypad. If you wish to change the code, select "Change Secret Code" and enter the new code through the number keypad. If you forget your code, just re-enter "7777" to reset to factory preset code.

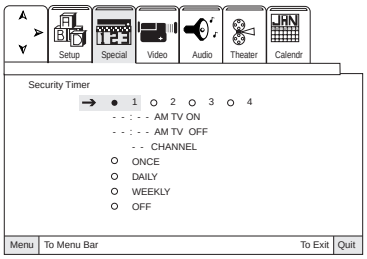
**4** Now select Channel you wish to block, Video Lock to block your video inputs from the rear jack panel, Quick Lock to lock Channel 3/4 and video inputs, or Front panel lock to block TV control from the front panel controls.

In order to use Video lock, you must press the source button on the remote until you select VID 1 or VID 2 in order to lock these source. The same applies to unlocking the Video Lock.



# Security Timer




**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

**2** Press an UP/DOWN arrow to select Security Timer. Press the RIGHT arrow button to activate Security Timer option.

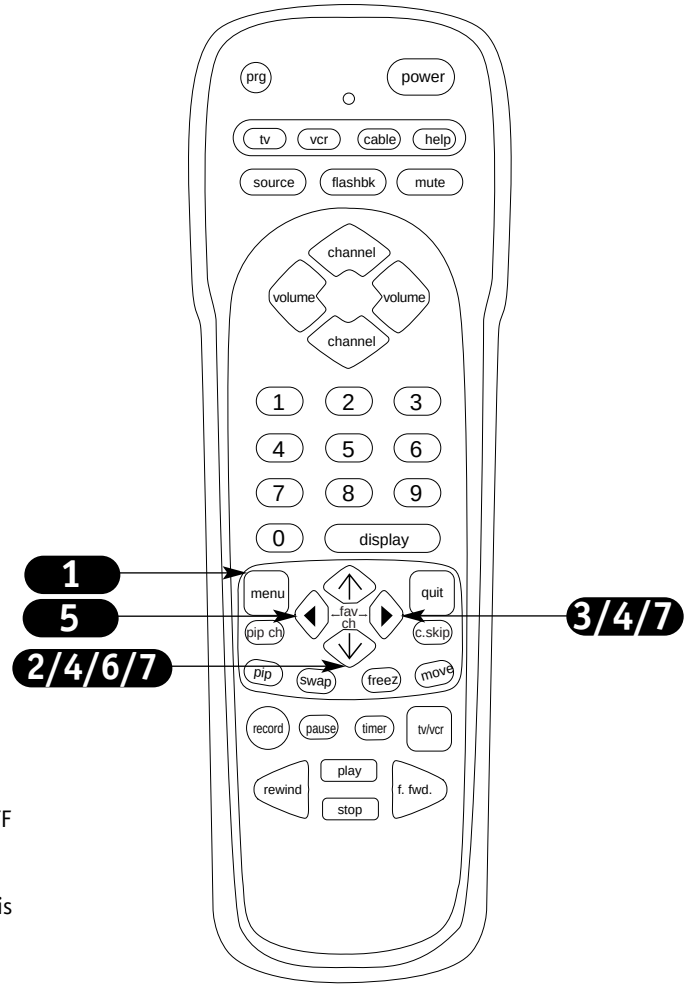
**3** You may select up to four ON/OFF time settings for your TV (Maximum time between ON timer and OFF timer is 3 hours). Use the RIGHT arrow button to select 1-4, then press the DOWN arrow button to select the TV on time.

**4** Use the DOWN arrow button to set the hour and use the LEFT/RIGHT buttons to select minute and AM or PM.

**5** Press the LEFT arrow button until the cursor appears to the left of the current line item.

**6** Use the DOWN arrow button to select Channel. Set the channel for the TV to tune to by entering the channel through the number keypad.

**7** Use the UP/DOWN arrow buttons to select Once, Daily, Weekly or Off. Use the RIGHT arrow button to set your selection.

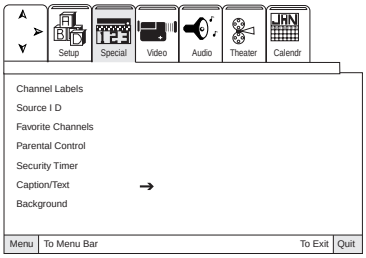


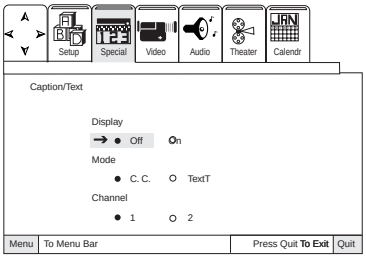

NOTE: The OFF Timer will only activate if the TV was turned on or tuned with the ON timer and no channel selection was made after this time. If you change the channel after the ON Timer has been activated, the OFF Timer will deactivate.

If no remote control button is pressed after ON timer is activated, and no OFF timer is set, then the TV will automatically turn off after 3 hours.

## Caption/Text

*Set the Caption/Text options for your Entertainment Machine.*



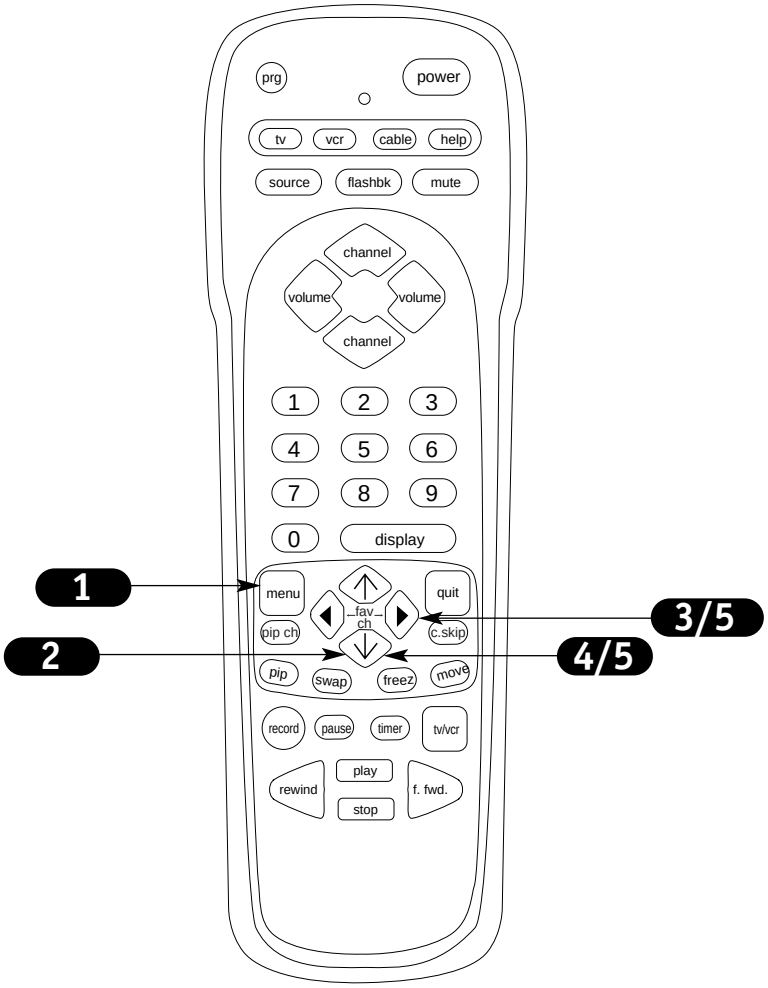

**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

**2** Press an UP/DOWN arrow to select Caption/Text. Press the RIGHT arrow button to activate Caption/Text option.

**3** Select Display Off or On to turn on your caption or text selection. Press the RIGHT arrow button to turn Display On or Off.

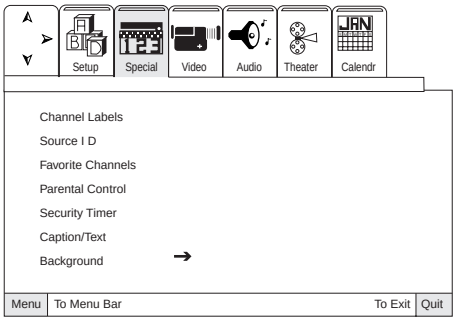
**4** Press a DOWN arrow button to select the mode, C. C. for Closed Captions or Text for Text. Use the RIGHT arrow button to select.

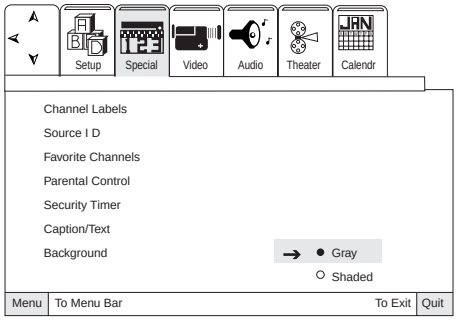
**5** Press a DOWN arrow button to select which channel Closed Captions or Text shall be set to. Usually this should be set to 1. Use the RIGHT arrow to select.




206-3486-0

## Background

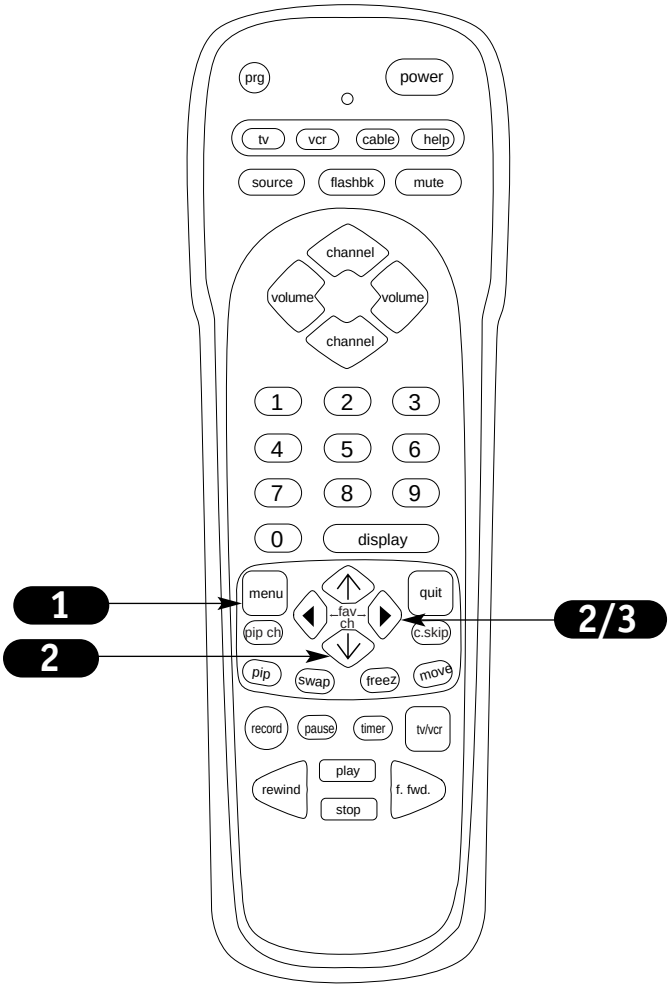



**1** Press MENU and the RIGHT/LEFT arrow button to access the Special Menu.

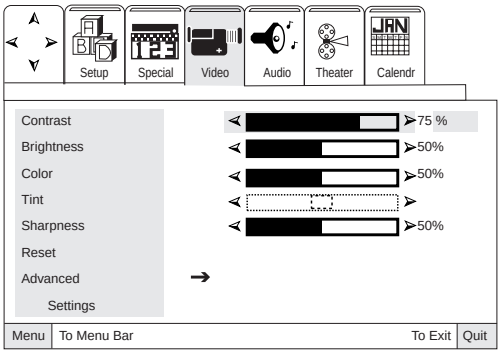
**2** Press an UP/DOWN arrow to select Background. Press the RIGHT arrow button to activate Background option.

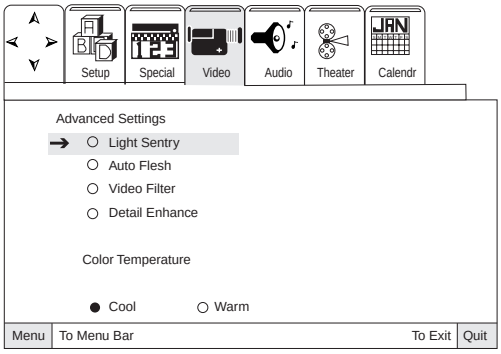
**3** Use the UP/DOWN arrow buttons to select Gray or Shaded.




206-3486-0

# Video Menu

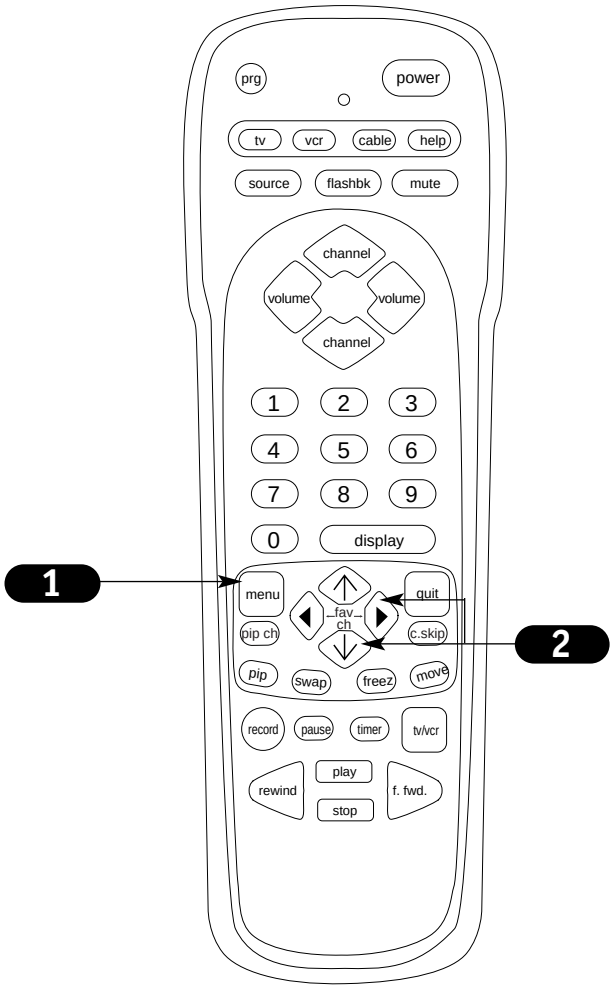


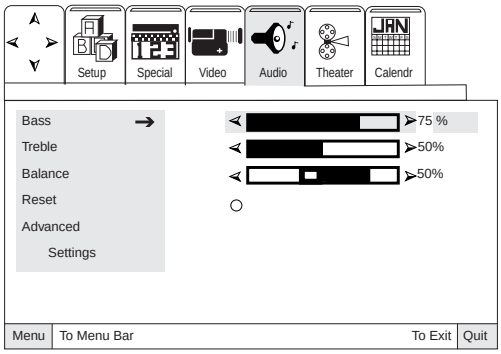

**1** Press MENU and the RIGHT/LEFT arrow button to access the Video Menu.

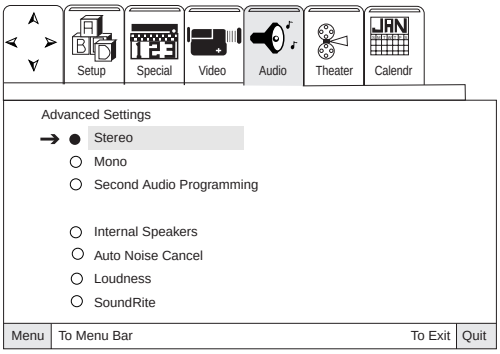
**2** Press an UP/DOWN arrow to select one of the following options. Press the RIGHT arrow button to activate that option.

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Reset:** Reset restores the levels to their original settings.
- **Advanced Settings:** Activate advanced settings menu.
- **Light Sentry:** Automatically monitor and adjust contrast depending on room lighting to produce a more natural picture.
- **Auto Flesh:** Automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes.
- **Video Filter:** Automatically reduces conspicuous noise in the picture without degrading picture quality.
- **Detail Enhance:** Improves picture detail in areas of high brightness.
- **Color Temperature:** Set this to Warm for hotter colors such as red, or set to cool for less intense colors with more blue.



# Audio Menu

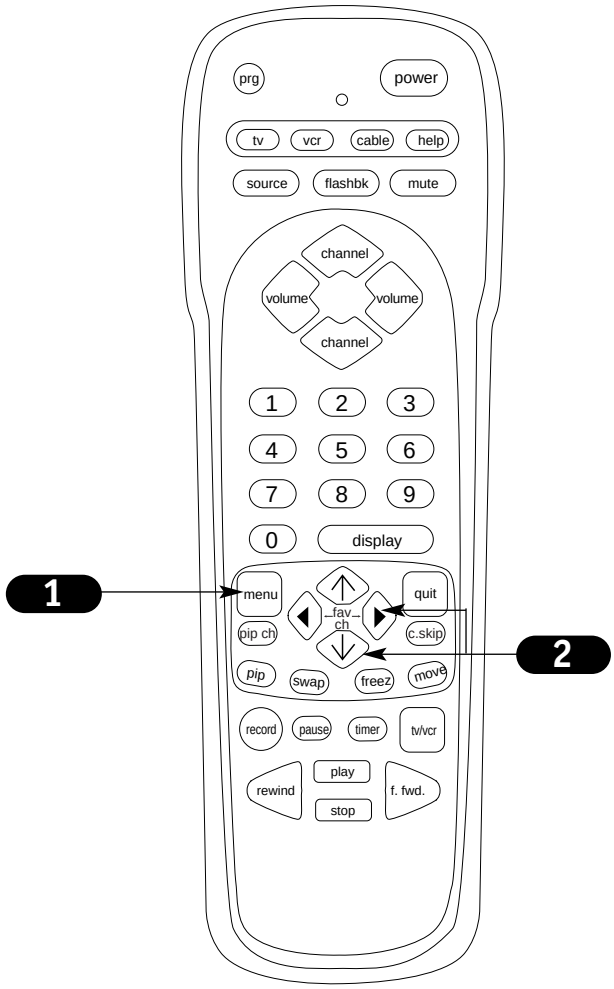



**1** Press MENU and the RIGHT/LEFT arrow button to access the Video Menu.

**2** Press an UP/DOWN arrow to select one of the following options. Press the RIGHT arrow button to activate that option.

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Reset:** Reset your audio options to their default settings.
- **Advanced Settings:** Set advanced setting on your TV.
- **Stereo:** Activate stereo sound.
- **Mono:** Activate mono sound.
- **Second Audio Programming:** Activates separate audio channel available with some programming.
- **Internal Speakers:** This function is useful when first setting up external speakers, or if you prefer to use only speakers from a separate stereo system.
- **Auto Noise Cancel:** This function eliminates the noise between stations.
- **Loudness:** This function will improve the quality of both low and high frequency sounds when listening at low volume levels.
- **SoundRite:** This function will automatically adjust volume so each channel has the same average volume level




*Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.*

*Programming that doesn't broadcast SAP may be silent when you set your Entertainment Machine on this setting.*

## Mini glossary

| | |
|---|---|
| STEREO SOUND | Stereo (Stereophonic) sound refers to audio that's divided into right and left sides. |
| MONO SOUND | Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio. |
| 2ND AUDIO/SAP | Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French. |

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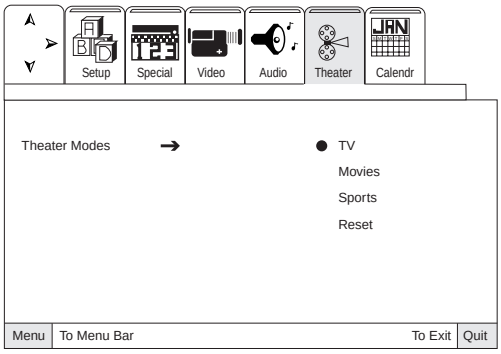
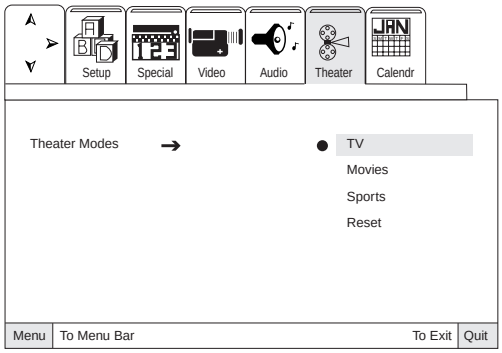
## Theater Modes

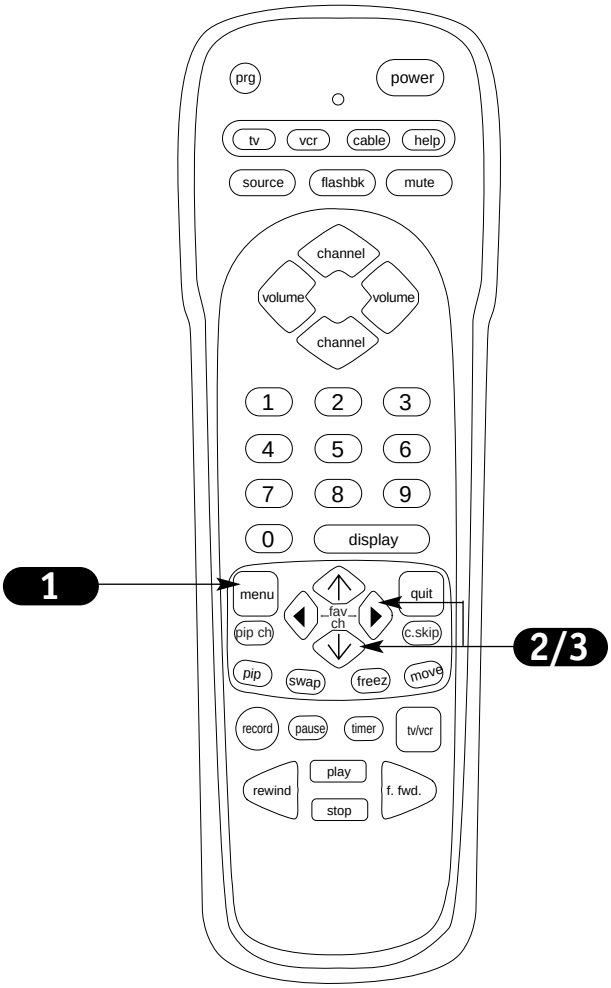


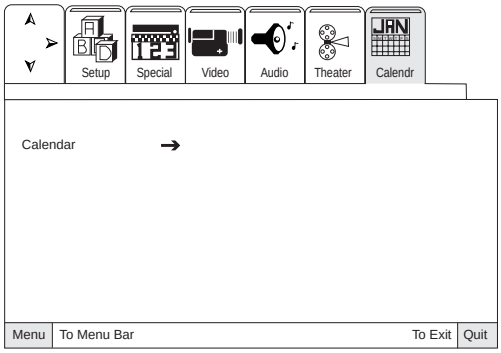

**1** Press MENU and then the RIGHT/LEFT arrow button to access the Theater modes.

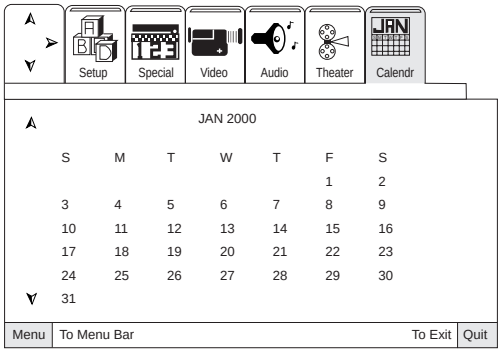
**2** Press DOWN arrow button to access the Theater modes.

**3** Press RIGHT arrow to select the Theater Modes which you prefer. Each is a preset Audio Video configuration which enhances your viewing pleasure. Press the UP/DOWN arrow button to activate that option.



# Calendar

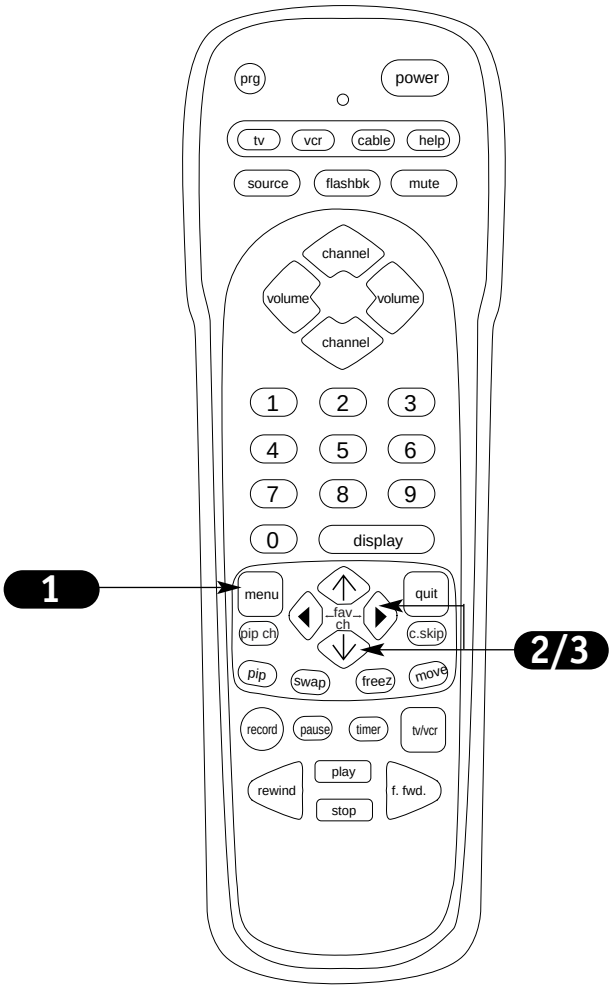



**1** Press MENU and then the LEFT/RIGHT arrow button to select calendar.

**2** Press DOWN button and then the RIGHT buttton to access Calendar to view it.

**3** Press an UP/DOWN arrow to select Calendar for viewing.

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### YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. Don't want to miss any of the big game, but hate commercials? Just put the game in the inset, and surf with the main picture.

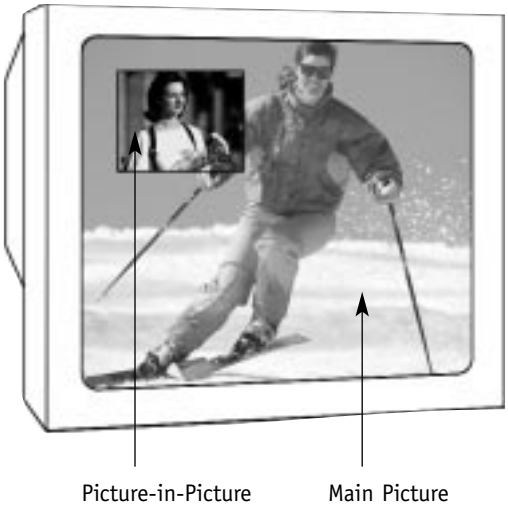
### 2-TUNER PIP FEATURE

Normally, you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your Entertainment Machine eliminates that need by giving you two tuners in one TV. PIP is always available, no matter what equipment you have.

### WORKING WITH PIP

This is where your MBR remote is put to the most use. All of the functions PIP has are accessible through the menus that pop up on-screen when you use your remote. There's more about that on the following page.

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. When you set the main screen source to Antenna/Cable 1 or 2, the PIP source will automatically set to that as well. You can adjust and/or request a different source through the Source selection on your remote.




### POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, or 2 and you can watch the VCR and TV, swapping between the two.

## PIP Functions

**SINGLE MODE PIP**

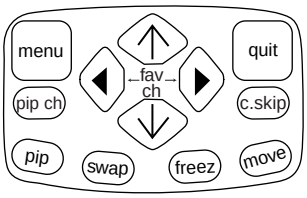
1 Press the PIP button on your remote to activate the PIP display. It appears in one corner of the screen. Press PIP again to reduce the size of the picture. Press PIP again to remove the display from the screen.

2 Use PIP Ch button on your remote to select between main picture and PIP display tuning control.

3 Press the SOURCE button on your remote when PIP display is active to change PIP source from VID1, VID2 and ANT 1 antenna source.

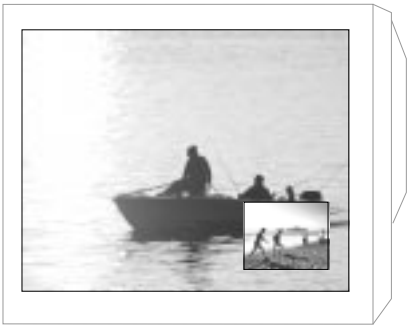
If movie ratings/TV ratings is set, PIP deactivates surf mode.

## PIP Functions




**PIP SWAP**

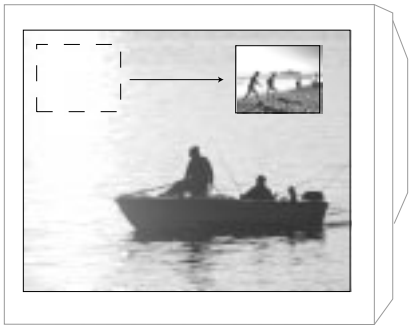
**1** Press the SWAP button on your remote to switch between the PIP display and the main picture. (SWAP only operates when PIP is in Single Mode.)



**PIP MOVE**

**1** Press the MOVE button on your remote to move the PIP display from corner to corner of your screen.

**2** If you wish to move the PIP display to another part of your screen other than the corners, simply activate the PIP display, wait about eight seconds and then move the PIP display with the UP/DOWN and LEFT/RIGHT arrow buttons on your remote.



**PIP FREEZE**

**1** With PIP displayed, press the FREEZ button on your remote to freeze the PIP display.

## Programming the Remote

Program your remote to work with a VCR or Cable Box.

**1** The device you want to program should be ON.

**2** On the chart in this manual, find the type of device you're programming and then find the brand name. Make a note of the two-digit code—you'll need it soon.

**3** Press and hold the PRG button. It's recessed so it doesn't get pushed accidentally. When the indicator light turns on, you can release the button.

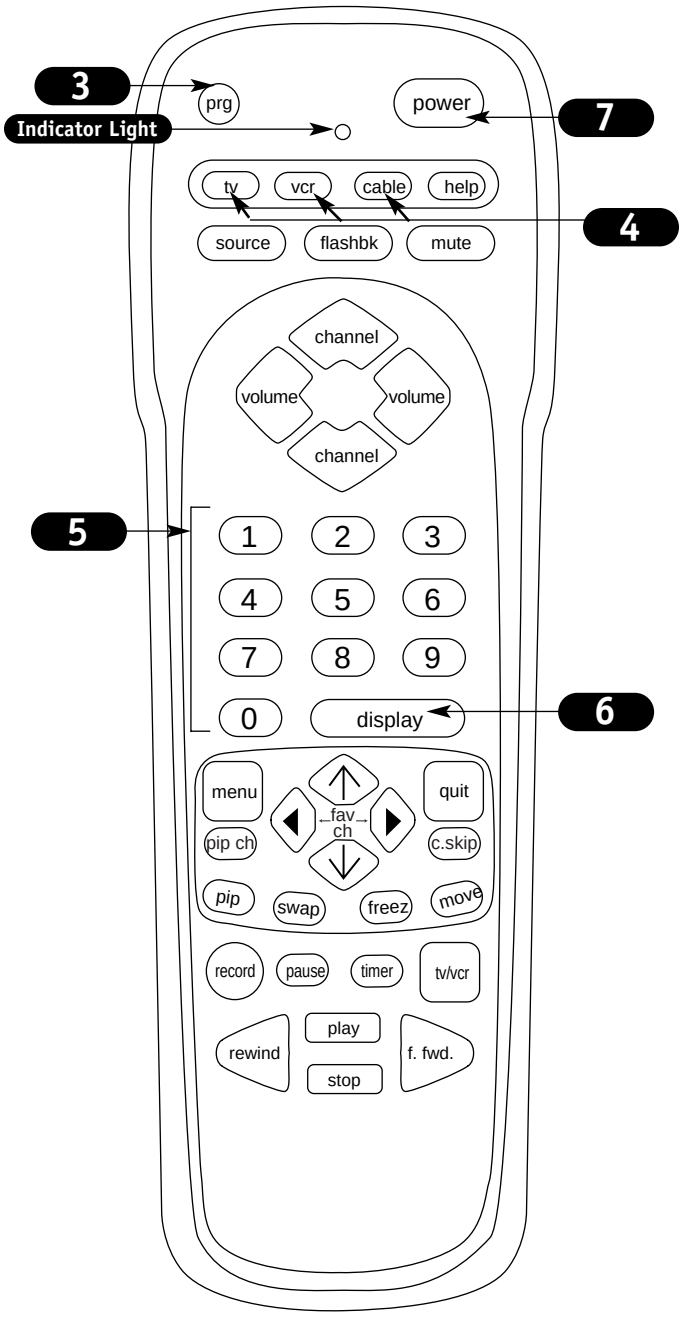
**4** Push the button with the name of the device you're programming (VCR or CABLE).

**5** Using the number pad, enter the two digit code found on the chart in the Reference section.

**6** Press DISPLAY to save the code The indicator light will flash three times and turn off if the code was accepted.

**7** Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.

*Not all devices will work with your Zenith remote control.*



# Programming Codes

## VCRs

Adventura . . . . . 00
Aiko . . . . . 08
Aiwa . . . . . 00
Akai . . . . . 01, 48, 49
American High . . . 22
Asha . . . . . 45
Audiovox . . . . . 23
Beaumark . . . . . 45
Bell & Howell . . . . 32
Brandt . . . . . 43
Broksonic . . . . . 33, 34, 42, 51, 52
Calix . . . . . 23
Canon . . . . . 22
Capehart . . . . . 06
Carver . . . . . 31
CCE . . . . . 08, 30
Citizen . . . . . 08, 23
Colt . . . . . 30
Craig . . . . . 18, 23, 30, 45
Curtis Mathes . . . 01, 22, 47
Cybernex . . . . . 45
Daewoo . . . . . 06, 08, 16, 38, 50
Daytron . . . . . 06
Dynatech . . . . . 00
Electrohome . . . . . 23
Electrophonic . . . . 23
Emerx . . . . . 07
Emerson . . . . . 200, 08, 12, 15, 23, 27, 28, 33, 34, 37, 42, 48, 51, 52
Fisher . . . . . 18, 20, 32, 46
Fuji . . . . . 09, 22
Funai . . . . . 00
Garrad . . . . . 00
General Electric . . 03, 22, 41, 47
Goldstar . . . . . 23, 24, 44
Gradiente . . . . . 00
Harley Davidson . . 00
Harman/Kardon . . . 24
Harwood . . . . . 30
Headquarter . . . . . 17
Hi-Q . . . . . 18
Hitachi . . . . . 01, 02, 03, 04
Jensen . . . . . 01
JVC . . . . . 01, 13, 26
KEC . . . . . 08, 23
Kenwood . . . . . 01, 24, 26
KLH . . . . . 30
Kodak . . . . . 22, 23
Lloyd . . . . . 00
Lloyd's . . . . . 27
Logik . . . . . 30
LXI . . . . . 23
Magnavox . . . . . 14, 2, 29, 31, 35
Magin . . . . . 45
Marantz . . . . . 22, 3
Marta . . . . . 23
Matsushita . . . . . 22
MEI . . . . . 22
Memorex . . . . . 00, 14, 17, 18, 19, 22, 23, 32, 45
MGA . . . . . 15, 48
MGN Tech . . . . . 45
Minolta . . . . . 02, 04
Mitsubishi . . . . . 15, 26, 40, 48, 49
Motorola . . . . . 19, 22
MTC . . . . . 00, 45
Multitech . . . . . 00, 30
NEC . . . . . 01, 05, 24, 26, 32
Nikko . . . . . 23
Noblex . . . . . 45
Olympus . . . . . 11, 22
Optimus . . . . . 19, 23, 32
Orion . . . . . 51
Panasonic . . . . . 10, 11, 22, 39, 53
Penny . . . . . 02, 05, 22, 23, 24, 45, 46
Pentax . . . . . 02, 03, 04
Philco . . . . . 22
Philips . . . . . 22, 29, 31
Pilot . . . . . 23
Pioneer . . . . . 26
Portland . . . . . 06
Protec . . . . . 30
Pulsar . . . . . 14
Quarter . . . . . 17
Quartz . . . . . 17
Quasar . . . . . 22
Radio Shack . . . . . 00, 23
Radix . . . . . 23
Randex . . . . . 23
RCA . . . . . 02, 03, 04, 35, 41, 47
Realistic . . . . . 00, 17, 18, 19, 20, 22, 23, 32, 45
Ricoh . . . . . 21
Runco . . . . . 14
Samsung . . . . . 16, 45
Sanky . . . . . 14, 19
Sansui . . . . . 01, 26
Sanyo . . . . . 17, 18, 32, 45
Scott . . . . . 15, 16, 33, 34, 37, 42
Sears . . . . . 02, 04, 17, 18, 20, 22, 23, 32, 46
Sharp . . . . . 19
Shintom . . . . . 30
Shogun . . . . . 45
Shinger . . . . . 30
Sony . . . . . 07, 09, 21, 22
STS . . . . . 02
Sylvania . . . . . 00, 15, 22, 29, 31
Symphonic . . . . . 00
Tatung . . . . . 01
Teac . . . . . 00, 01
Technics . . . . . 22, 39
Teknika . . . . . 00, 22, 23
Telefunken . . . . . 43
THK . . . . . 43
Toshiba . . . . . 15, 16, 20, 37
Totevision . . . . . 23, 45
Unitech . . . . . 45
Vector . . . . . 16
Vector Research . . 05, 24
Video Concepts . . . 05, 16, 48
Videosonic . . . . . 45
Wards . . . . . 00, 02, 18, 19, 22, 30, 35, 37, 45, 47
XR 1000 . . . . . 00, 22, 30
Yamaha . . . . . 24
Zenith . . . . . 09, 14, 21, 54

## Cable Satellite

ABC . . . . . 00, 07, 08, 18, 19, 21, 37, 38, 53
Antronix . . . . . 40
Archer . . . . . 12, 25, 40
Belcor . . . . . 33
Cable Star . . . . . 33
Century . . . . . 12
Citizen . . . . . 12
colour Voice . . . . . 31, 45
Contronics . . . . . 26, 29
Contec . . . . . 22
Dae Ryung . . . . . 21
Eastern . . . . . 15
electricord . . . . . 32
Everquest . . . . . 56
Focus . . . . . 57
Garrard . . . . . 12
GC Electronics . . . . 33, 40
Gemini . . . . . 04, 39, 44, 56
Goldstar . . . . . 11, 26
General Instrument 00, 13
Hamlin . . . . . 03, 09, 14, 23, 24
Hitachi . . . . . 00
Hytex . . . . . 37
Jasco . . . . . 12
Jerrold . . . . . 00, 08, 13, 38, 53, 55, 56
Macom . . . . . 36
Magnavox . . . . . 16
Memorex . . . . . 02
Movie Time . . . . . 30, 32, 34
NSC . . . . . 30, 34, 39
Oak . . . . . 22, 37, 50
Panasonic . . . . . 02, 10, 49
Paragon . . . . . 02
Philips . . . . . 12, 16, 17, 27, 31, 43, 44, 45, 47
Pioneer . . . . . 06, 11, 20
Popular Mechanics . 57
Pulsar . . . . . 02
RCA . . . . . 49
Realistic . . . . . 49
Recoton . . . . . 57
Regal . . . . . 03, 09, 23, 35
Regency . . . . . 15
Rembrandt . . . . . 00, 39
Runco . . . . . 02
Samsung . . . . . 11, 26
Scientific Atlanta 18, 21, 42, 48
Signal . . . . . 26, 56
Signature . . . . . 00
SL Marx . . . . . 26
Sprucer . . . . . 01, 49
Starcom . . . . . 38, 53, 56
Stargate . . . . . 26, 56
Starquest . . . . . 56
Starsight . . . . . 58, 59
Sylvania . . . . . 19
Teleview . . . . . 26
Texscan . . . . . 19
Tocom . . . . . 07, 28, 55
Toshiba . . . . . 02
Tusa . . . . . 56
TV 86 . . . . . 30
Unika . . . . . 12, 40
United Artists . . . . 37
United Cable . . . . 34453
Universal . . . . . 12, 25, 32, 33, 35, 40
Videoway . . . . . 51
Viewstar . . . . . 16, 29, 30, 41
Zenith . . . . . 16, 29, 30, 41, 64
Zentek . . . . . 57
Hitachi (SAT) . . . . 61
RCA (SAT) . . . . . 62
Sony (SAT) . . . . . 63

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## Zenith Remote Button Functions

| KEY NAME | TV Mode | VCR Mode | Cable Mode |
|---|---|---|---|
| **PRG** | Remote Program | Remote Program | Remote Program |
| **POWER** | TV On/Off | VCR On/Off | Cable Box On/Off |
| **CABLE** | Selects Cable | Selects Cable | Selects Cable |
| **VCR** | Selects VCR | Selects VCR | Selects VCR |
| **TV** | Selects TV | Selects TV | Selects TV |
| **HELP** | TV Help | N/A | N/A |
| **SOURCE** | TV Sources | TV Sources | TV Sources |
| **FLASHBK** | TV Flashback | VCR Flashback | Cable Flashback |
| **MUTE** | TV Mute | TV Mute | TV Mute |
| **CHANNEL UP** | TV Channel Up | VCR Channel Up | Cable Channel Up |
| **CHANNEL DN** | TV Channel Dn | VCR Channel Dn | Cable Channel Dn |
| **VOLUME (RIGHT)** | TV Volume Up | TV Volume Up | TV Volume Up |
| **VOLUME (LEFT)** | TV Volume Dn | TV Volume Dn | TV Volume Dn |
| **1** | TV Digit 1 | VCR Digit 1 | Cable Digit 1 |
| **2** | TV Digit 2 | VCR Digit 2 | Cable Digit 2 |
| **3** | TV Digit 3 | VCR Digit 3 | Cable Digit 3 |
| **4** | TV Digit 4 | VCR Digit 4 | Cable Digit 4 |
| **5** | TV Digit 5 | VCR Digit 5 | Cable Digit 5 |
| **6** | TV Digit 6 | VCR Digit 6 | Cable Digit 6 |
| **7** | TV Digit 7 | VCR Digit 7 | Cable Digit 7 |
| **8** | TV Digit 8 | VCR Digit 8 | Cable Digit 8 |
| **9** | TV Digit 9 | VCR Digit 9 | Cable Digit 9 |
| **0** | TV Digit 0 | VCR Digit 0 | Cable Digit 0 |
| **DISPLAY** | TV Display | VCR Enter | Cable Enter |
| **MENU** | TV Menu | VCR Menu | Cable Menu |
| **UP ARROW** | TV Select Up | VCR Select Up | Cable Up Arrow |
| **DOWN ARROW** | TV Select Dn | VCR Select Dn | Cable Dn Arrow |
| **LEFT ARROW** | TV Adjust Left, fav. ch. | VCR Adjust Left | Cable Left Arrow |
| **RIGHT ARROW** | TV Adjust Right, fav. ch. | VCR Adjust Right | Cable Right Arrow |
| **QUIT** | TV Quit | VCR Quit | Cable Quit |
| **PIP** | TV PIP | VCR+ | Day Up |
| **SWAP** | TV PIP Swap | VCR Channel Map | Day Down |
| **FREEZ** | TV PIP Freeze | VCR Search | Cable Pg Up |
| **MOVE** | TV PIP Moves | VCR Memory | Cable Pg Down |
| **C. SKIP** | Channel Skip | N/A | N/A |
| **PIP CH.** | PIP Channel Tuning | N/A | N/A |
| **TIMER** | TV Timer | VCR Timer | Cable Timer |
| **TV/VCR** | TV Tuner or VCR Tuner | TV Tuner or VCR Tuner | Cable Info. |
| **RECORD** | VCR Record | VCR Record | Cable Buy |
| **PAUSE** | VCR Pause | VCR Pause | Cable Guide |
| **REWIND** | VCR Rewind | VCR Rewind | VCR Rewind |
| **PLAY** | VCR Play | VCR Play | VCR Play |
| **STOP** | VCR Stop | VCR Stop | VCR Stop |
| **FFWD** | VCR Fast Forward | VCR Fast Forward | VCR Fast Forward |

## Maintenance

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

### SCREEN CLEANING

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

### CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet .
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Entertainment Machine on.

### WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

### EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your Entertainment Machine before leaving.

### PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your Entertainment Machine, consult the Troubleshooting guide on the following pages.

### VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left sitting for too long, they can leave a permanent impression on the picture tube. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.

*If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.*

## Troubleshooting

Some quick and easy tips to fixing problems yourself.

| SYMPTOMS | SOLUTIONS |
|---|---|
| **Snowy picture and unclear sound.** | • Check your antenna connection or location<br>• Check your cable input.<br>• Check to see if the TV/.VCR button on your VCR has the TV selected. |
| **Multiple images or 'ghost shadows.'** | • Check your antenna direction and/or location.<br>• Check your cable input<br>• Make sure the cable from your antenna to your Entertainment Machine is properly connected. |
| **Interference: Sharp lines across the screen and unclear sound.** | *The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment*<br>• If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off. |
| **Normal picture but no sound.** | • Check volume levels.<br>• Make sure the TV is not Muted.<br>• Try another channel. The problem may be the broadcast, not your Entertainment Machine.<br>• Are the Audio A/V cables properly installed?<br>• Are the wires for external speakers (if you have external speakers) properly installed?<br>• Make sure your speakers turned on under the Audio menu.<br>• If your audio mode is set to SAP, that channel may not have a SAP program. |
| **No picture and unclear sound.** | • Are you in TV or cable tuning mode, and should be in the other?<br>• Make sure output channels on all A/V equipment are on the same channel (3 or 4).<br>• Check that all connections are tight. |
| **No picture and no sound.** | • Is the AC power plugged in?<br>• Check that your AC power outlet works. (Test it by plugging in something else or try another plug.)<br>• Make sure your brightness and audio controls are set properly.<br>• Try another channel. The problem may be with the broadcast. |
| **No color, but the sound is O.K.** | • Check the color control in the Video menu.<br>• Try another channel. The problem may be with the broadcast. |
| **Picture has a big black box on it, but the sound is O.K.** | • The CC (closed caption) option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu. |
| **Picture has two horizontal black bars, one on top and one on bottom.** | • Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. |

| | |
|---|---|
| **Not able to add a 3 digit channel number.** | • Press the 1st digit of your channel number, wait until 2 dashes appear to the right of your number than add the other two digits. |
| **Not able to lock video lock feature in parental control.** | • Exit out of Parental Control menu. Press the source button on your remote and change the source to Video 1. Then you can reenter the parental control menu and lock the video lock. You must do this same process to unlock the video lock. |
| **Remote control doesn't work.** | • Make sure the batteries are fresh and installed properly. |
| **Menu options can't be changed or selected.** | • Try unplugging your Entertainment Machine for a few minutes, then plug it back in. |
| **No picture or sound when any non-cable source is selected.** | • Check to see if the source equipment has been turned on.<br>• Make sure that the connections are secure on the back of your Entertainment Machine and on the source equipment. |
| **Weak or no Stereo Sound when using a stereo VCR.** | • Check to see if all the connections are secure.<br>• Look in the Audio mode menu to see if all the settings are correct.<br>• You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision. |
| **The PIP inset is black or lacks contrast.** | • You might want to adjust the PIP picture settings under the PIP menu.<br>• Check that all the wires are connected properly.<br>• Check to see if your input source for PIP is set correctly. |
| **The PIP inset is "snow" when the source is Ant/Cable 1.** | • Look to see if the TV/VCR button on your VCR has the TV selected. |
| **Time is incorrect.** | • Make sure the time was set initially. Probably power was lost. |

## Glossary

A complete list of definitions for words found in this guide.

**75 OHM RF CABLE** The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

**A/V CABLES** Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

**A/V DEVICE** Any device that produces video or sound (VCR, DVD, cable box, or television).

**ADD** This function lets you add new channels to the list that you'll scroll through when using your remote.

**AMPLIFIER** An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

**ANTENNA** The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

**CAPTIONS** A form of subtitling that writes out the dialog for your program.

**CONVERGENCE** This option lets you correct for color separation in your picture.

**DELETE** This function lets you remove channels that you don't watch from the list you'll scroll through.

**ICON** A small graphic item on your screen that represents a function or menu item.

**INPUT** Refers to the jack that receives a signal into the TV, VCR or other A/V device.

**JACK** A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.

**MODE** The mode determines the type of device (TV, VCR, Cable) that the remote is controlling.

**MONO SOUND** Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.

**OUTPUT** Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

**PIP** This is the most common way to refer to the Picture-In-Picture (PIP) option.

A complete list of definitions for words found in this guide.

| | |
|---|---|
| **SECOND AUDIO PROGRAMMING/SAP** | Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French. |
| **SIGNAL** | Picture and sound traveling through cable, or on the air, to your television screen. |
| **SOURCE** | The term for the equipment that provides audio and video information to your Entertainment Machine. Antenna, VCR, DVD players, or Cable Boxes are examples of sources. |
| **STEREO SOUND** | Stereo (stereophonic) sound refers to audio that's divided into right and left sides. |
| **TEXT** | Arbitrary text not related to the program. |
| **TUNER** | Any device that picks up broadcast signals and turns them into picture and sound. |

# Recommended Video Accessories

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# Your Zenith Warranty

**Projection Color TV** Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

## ZENITH RESPONSIBILITY

**Service Labor** During a period of one year from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.

**Parts** New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

**Home Service** Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

**Not Covered** This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

## OWNER'S RESPONSIBILITY

**Effective Warranty Date** Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

**Operating Guide** Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

**Carry-In Service** Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

**Antenna** Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

**Important** Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

**Warranty Service** For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance and Troubleshooting" in your operating guide. You might avoid a service call.

**ZENITH ELECTRONICS CORPORATION**
**Zenith Response Center**

201 James Record Rd., Building 3,
Huntsville, AL 35824
Telephone (256) 772-1515
Mon-Fri, 7:00 a.m.-8:00 p.m. CST
Sat. 8:00 a.m.-5:00 p.m. CST
www.zenith.com

**Projection TV Hotline:**
**1-877-936-4849**

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**Additional Zenith Picture Tube Protection Plan Available**
Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

***Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (256) 774-4088.***


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